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GoldStar

DOUBLE DECK VIDEO CASSETTE RECORDER SERVICE MANUAL

MODEL: DV13P

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.

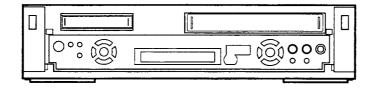


TABLE OF CONTENTS

SECTION 1	SUMMARY	1-2-2. VCO (Record Current Frequen	cy)
		Adjustment	3-2
KEY TO ABBREVIATIONS		1-3. Tuner/IF Circuit	3-2
IMPORTANT SAFETY PRE	CAUTIONS1-5	1-3-1. AFC Adjustment	3-2
 Precautions during Service 	_	1-3-2. RF AGC Adjustment	3-3
SAFETY CHECK AFTER S	ERVICING1-6	1-3-3. SIF Adjustment	
• Insulation resistance test	1-6	2. 8mm Circuit Adjustment	3-4
• Dielectric strength test	1-6	2-1. Servo Circuit	
Clearance distance	1-6	2-1-1. PG Adjustment	
Leakage current test	1-6	2-2. Y/C Circuit	
INTRODUCTION	1-7	2-2-1. Playback Output Level Adjustn	
FEATURES		2-2-2. Color VCO Adjustment	
SPECIFICATIONS	1-7	2-3. Audio Circuit	
LOCATION OF CUSTOMER	R CONTROLS1-8	2-3-1. VCO Adjustment	
		2-3-2. Deviation (L) Adjustment	
SECTION 2		2-3-3. Deviation (R) and Matrix Adjustn	
CABINET 8	MAIN FRAME	BLOCK DIAGRAMS	
		1. VHS Block Diagrams	
SERVICE FIXTURE CONNE	ECTING METHOD2-1	1-1. Power Block Diagram	
 SVC FIXTURE Connectin 	g Method2-1	1-2. Pre-Amp Block Diagram	
2. Electrical Service Fixture	List2-1	1-3. Main System (Servo, Syscon) Block Diagra	
CABINET DISASSEMBLY	2-2	1-4. Y/C Block Diagram	
1. Top Case	2-2	1-5. Audio Block Diagram	
2. Bottom Cover	2-2	1-6. Timer Block Diagram	
3. Front Panel	2-2	1-7. Tuner/IF Block Diagram	
CIRCUIT BOARD DISASSE	MBLY2-3	1-8. In/Out & Function OSD Block Diagram	
 Circuit Board Arrangemen 		2. 8mm Block Diagrams	
VHS Main Circuit Board	2-3	2-1. Main System (Servo, Syscon) Block Diagra	
3. Power Circuit Board	2-3	2-2. Audio Block Diagram	
4.8mm Main Circuit Board		2-3. Pre-Amp Block Diagram	
5. 8mm/VHS Pre-Amp Circui	it Board2-4	2-4. Y/C Block Diagram	
8mm/VHS Key Function C	Circuit Board2-4	CIRCUIT DIAGRAMS	
EXPLODED VIEWS	2-5	1. VHS Circuit Diagrams	
1. Cabinet & Main Frame Se	ction2-5	1-1. Power Circuit Diagram	
Packing Accessory Sectio	n2-7	1-2. Main System (Servo, Syscon) Circuit	
3. Remote Control Section	2-8	Diagram	3-35
		1-3. Y/C Circuit Diagram	
SECTION 3	ELECTRICAL	1-4. Timer/Key Function Circuit Diagram	
		1-5. Audio Circuit Diagram	
ELECTRICAL ADJUSTMEN		1-6. Tuner/IF Circuit Diagram	
Electronic Test Equipment		1-7. Scart In/Out & Function OSD Circuit	0-01
I. VHS Circuit Adjustment		Diagram	2,55
1-1. Servo Circuit		1-8. Pre-Amp Circuit Diagram	
1-1-1. PG Adjustmen	t3-1		
1-2. Audio Circuit		2. 8mm Circuit Diagrams	ა-ხ5
1-2-1. Record Bias A	djustment3-2	2-1. Main System (Servo, Syscon) Circuit	0.05
		Diagram	ძ-65

2-2. Y/C Circuit Diagram3-69	9-8. Gear L4-9
2-3. Audio Circuit Diagram3-75	9-9. Spring L4-9
2-4. Pre-Amp Circuit Diagram3-79	9-10. Switch Lever4-9
3. Connection Diagram3-81	DECK MECHANISM DISASSEMBLY
PRINTED CIRCUIT BOARD DIAGRAMS3-83	Deck Mechanism Parts Location4-10
1. VHS Printed Circuit Board3-83	1. Auto Head Cleaner Assembly4-11
1-1. Main P.C.Board3-83	2. Drum and Drum Base Assembly4-11
1-2. Power P.C.Board3-87	3. Drum Assembly4-11
1-3. Pre-Amp P.C.Board3-88	3-1. Drum Sub and Motor Assembly4-11
1-4. Timer (I) P.C.Board3-87	3-2. Upper and Lower Drum Assembly4-12
1-5. Deck Junction P.C.Board3-89	4. A/C Head Assembly4-12
1-6. Scart In/Out P.C.Board3-89	5. Pinch Lever Assembly4-12
2. 8mm Printed Circuit Board3-91	6. Loading Motor Assembly4-13
2-1. Main P.C.Board3-91	7. Take Up Lever4-13
2-2. Timer (I) P.C.Board3-92	8. Take Up Arm Assembly4-13
2-3. Pre-Amp P.C.Board3-93	9. P4 Assembly4-14
2-4. Deck Junction P.C.Board3-95	10. Pinch Gear4-14
	11. Full Erase Head Assembly4-14
SECTION 4 MECHANISM	12. P1 Assembly4-15
	13. Tension Arm Assembly4-15
SECTION 4-1	14. Supply Soft, Supply Main, Take Up Soft and
VHS DECK MECHANISM	Take Up Main Brake Assembly4-15
FRONT LOADING MECHANISM DISASSEMBLY	15. Bracket F/R Assembly4-15
Front Loading Mechanism Parts Location4-3	16. Supply Reel Assembly4-16
Front Loading Mechanism Assembly4-4	17. Take Up Reel Assembly4-16
2. PCB Assembly4-5	18. Idler Gear (A), (B)4-16
2-1. PCB Assembly (R)4-5	19. Pulley Gear Assembly4-16
2-2. PCB Assembly (L)4-5	20. Bracket Bottom Assembly4-16
3. Top Plate4-5	21. Junction PCB Assembly4-16
4. Carrier Bracket Assembly4-6	22. Capstan Motor/Brake Assembly4-17
4-1. Carrier Bracket Assembly4-6	23. Function Plate4-17
4-2. Cassette Opener4-6	24. Ratchet Lever Assembly4-18
4-3. Rid Opener4-6	25. Cam Gear, Rack T, Rack F.L4-18
4-4. Detect Lever and Detect Spring4-6	26. PC Gear4-19
4-5. Support Bracket Assembly4-7	27. P2 and P3 Slant Assembly4-19
4-6. Carrier Bracket Assembly4-7	28. Loading Gear Assembly4-19
5. Cassette Guide4-7	29. Tension Lever Assembly4-20
6. Bracket Assembly Side4-8	30. Clutch Gear Assembly4-20
7. Bracket Assembly (L), (R)4-8	MECHANISM ADJUSTMENT
8. Door Opener4-8	Tools and Fixtures for Deck4-21
9. Drive Gear Assembly4-8	1. Mechanism State Switch (Mode Switch)
9-1. Drive Gear Assembly4-8	Check4-22
9-2. Cushion Spring4-8	2. Preparation for Adjustment (To set VCR to the
9-3. Cap-D4-8	Loading State without inserting a cassette)4-23
9-4. Spring C.C4-8	3. Tension post position and Tension
9-5. Gear C4-8	Adjustment4-24
9-6. Gear R4-9	4. Checking Torque4-25
9-7. Spring R4-9	5. Guide Roller Height Adjustment4-27
1 3	

6. Audio/Control (A/C) Head Adjustment4-29	Drum Base Ass'y and Interia Roller Ass	'v 4-60
7. X-Value Adjustment4-30	13. Brake Clutch, Reel Ass'y (S), Reel Ass'	v /T\
8. Adjustment after Replacing Drum Assembly	Sensor Bracket, Idler Gear Ass'y and C	y ('/, am
(Video Heads)4-31	Spacer	
Check of Tape Travel after Reassembling Deck	14. Brake Reel Ass'y, Lever Brake Ass'y, Ti	02 mina
Assembly4-30	Belt, Idler Belt, Drive Gear Ass'y,	mig
9-1. Check Audio and RF Locking Time during	Conversion Gear Ass'y	4-62
Playback after CUE or REV4-30	15. Drum Ass'y Disassembly	4-63
9-2. Check the coincidence of both Audio and	16. Drum Disassembly	4-03 1-64
Video Sync. (Lip sync.)4-31	17. PCB Ass'y Deck	4-04 4 65
9-3. Check the occurance of tape curl and Jame4-31	Deck Mechanism Adjustment	4-66
9-4. Check the adjustment state of Take-Up	Deck Loading System Lay-Out	4 66
Guide4-31	2. Preparations	4-00 4-66
10. Maintenance/Inspection Procedure4-32	3. Loading Post First Height Adjustment	4 66
MECHANISM TROUBLESHOOTING GUIDE	Tension Arm Position and Back Tension	4-00
1. Deck Mechanism4-35	Adjustment	
2. Front Loading Mechanism4-39	5. Reel Torque Check	4 67
EXPLODED VIEWS	6. Tape Path Adjustment	
1. Moving Mechanism Section (I)4-41	Exploded Views	4-00
2. Moving Mechanism Section (I)4-43	Cassette Housing Section	4-7 I
Front Loading Mechanism Section4-45	Chassis Mechanism Section	4-7 1 4-72
		4-70
SECTION 4-2	SECTION 5	
8mm DECK MECHANISM	REPLACEMENT PARTS	LIST
Periodical Check and Maintenance4-47	1. Mechanical Section	. .
Rotary Drum Assembly Cleaning4-47	1-1. VHS Mechanism	5-1
2. Tape Loading Course Cleaning4-47	1-2. 8mm Mechanism	5-1
3. Drive System Cleaning4-47	Cabinet & Main frame Section	5-3
4. Maintenance Time Table4-48	Packing Accessory Section	
Deck Mechanism Disassembly4-49	4. Remote Control Section	5-O E O
1. Housing Ass'y Disassembly4-49	5. Fixture Section	5-0
2. DC Motor (Capstan motor) Ass'y4-49	6. Electrical Section	5-0 5.0
3. Pinch Arm Ass'y and Pinch Lever Ass'y4-50		5-9
4. Take up Arm Ass'y4-51		
5. Mode Lever Ass'y and Take up Lever Ass'y .4-52		
6. Soft Brake Ass'y and T/Band Protect4-52		
7. Tension Regulator Ass'y and Slant Roller		
Arm Ass'y4-53		
8. Tension Regulator FWD Position and		
Back Tension Adjustments4-54		
9. Worm Gear Ass'y Middle Gear, Trains		
Gear Ass'y, Loading Motor Ass'y and		
Bracket Ass'y4-55		
0. Loading Base Ass'y, Mode Gear A'ssy and Eject		
Lever Ass'y4-56		
11. Gear Loading Ass'y (S), (T), Slant Base		
Ass'y (S), (T), Cam Gear and Lever Drive		
Ass'y4-58		•

SECTION 1 SUMMARY KEY TO ABBREVIATIONS

				F AIVI IOI	- -
Α	AC	:Alternating Current		LPF	:Low Pass Filter
	ACC	:Automatic Color Control	M	MAX	:Maximum
	ACSS	:Automatic Channel Setting System		MD	:Modulator
	ADJ	:Adjust		MECHA.CTL	:Mechanism Control
	A/E AFC	:Audio Erase :Automatic Frequency Control		MIC	:Microphone
	AFT	:Automatic Frequency Control		MIN	:Minimum
	AGC	:Automatic Fine Funing		MIX	:Mixer, Mixing
	A.H.SW	:Audio Head Switch		M.M.	:Mono Multi Vibrator
	ALC	:Automatic Level Control		MMV	:Monostable Multivibrator
	AM	:Amplitude Modulation		MODEN	:Modulation, Modulator
	AMP	:Amplifier		MODEN	:Modulation-Demodulator
	ANT	:Antenna		MPX	:Multiplex
	APC	:Automatic Phase Control	N	NR	:Noise Reduction
	ASSY	:Assembly	0	OSC	:Oscillator
	AUX	:Auxiliary		OSD	:On Screen Display
В	В	:Base	– P	PB	:Playback
_	BGP	:Burst Gate Pulse		PCB	:Printed Circuit Board
	BPF	:Bandpass Filter		P.CTL	:Power Control
	BS	:Brodcasting Satellite		PER-AMP	:Preamplifier
	BW or B/W	:Black and White		P.F	:Power Failure
С	C	:Capacitor, Chroma, Collector	_	PG	:Pulse Generator
	ČAN	:Cancel		PLL DET	:Phase Locked Loop
	CAP	:Capstan		PREM.DET	:Premire Detect
	CAP.BRK	:Capstan Brake		P-P PS	:Peak to Peak
	CAP.RVS	:Capstan Reverse			:Phase Shift
	CATV	:Cable Television		PWM PWR CTL	:Pulse Width Modulation
	CBA	:Circuit Board Assembly	^		:Power Control
	CCD	:Charge Coupled Device	Q	Q	:Transistor
	C.CTL	:Chro Control, Capstan Control		QH QSR	:Quasi Horizontal
	CFG	:Capstan Frequency Generator		QSR QTR	:Quick Set Record
	CHROMA	:Chrominance		QV QV	:Quick Timer Record
	CNR	:Chroma Noise Reduction	n		:Quasi Vertical
	COMB	:Combination	R	R BE(or BC)	:Resistor, Right
	COMP	Comb Filter		RE(or RC) REC	:Remocon, Receiver :Recording
	COMP	:Comparator		REC S.'H'	
		Composite		REF	:Record Start 'Hight'
	CONV	Compensation :Converter		REG	:Reference :Regulated, Regulator
	C.ROT SW	:Color Rotary Switch		REMOCON	:Remote Control(unit)
	CS SW	:Chip Select		RF	:Radio Frequency
	C.SYNC	:Composite Synchronization		R/P	:Record/Playback
	CTL DIV	:Control Divide		RTC	:Reel Time Counter
	CUR	:Current	s	S	:Serial
	CYL	:Cylinder	•	S.ACCEL	:Slow Accel
D	D	:Drum, Digital, Diode, Drain	-	SAOP	:Second Audio Program
U	D.ADJ	:Drum Adjust		SC	:Scart, Simulcast
	DC	:Direct Current		S.DET	:Secam Detect
	D.CTL	:Drum Control		SH	:Shift
	DEMOD	:Demodulator		SHARP	:Sharpness
	DET	:Detect		SIF	:Sound Intermediate Frequency
	DEV	:Deviation		SLD	:Side Locking
	DHP	:Double High Pass		S/N	:Signal to Noise Ratio
	DIGITRON	:Digital Display Tube		SP	:Standard Play
	DL	:Delay Line		ST	:Stereo
	DOC	:Drop Out Compensator		SUB	:Subtract, Subcarrier
	DUB	:Dubbing		SW or S/W	:Switch
	D.V SYNC	:Dummy Vertical Synchronization	_	SYNC	:Synchronization
Ε	Ē	:Emitter	_	SYSCON	:System Control
	EE	:Electric to Electric	1	} TD	:Coil
	EMPH	:Emphasis		TP TD	:Test Point
	ENA	:Enable		TR	:Transistor
	ENV EP	:Envelope		TRK TRANS	:Tracking :Transformer
	EQ	:Extended Play		TU	:Transformer :Tuner, Take-Up
	EXP	:Equalizer :Expander	U	UHF	
F	F	The state of the s	- "		:Ultra Hight Frequency
г		:Fuse		UNREG	:Unregulated
	FB EBC	:Feed Back	V	V	:Volte, Vertical, Video
	FBC FE	:Feed Back Clamp		VA	:Voltage Alive
	FG	:Full Erase :Frequency Generator		VCO	:Voltage Controlled Oscillator
	FG FL	:Frequency Generator :Filter		VGC	:Voltage Gain Control
	FM	:Frequency Modulation		VHF	:Very High Frequency
	F/R	:Forward/Reverse		V.H.S W VISS	:Video Head Switch
	FS	:Frequency Synthesizer		VISS VPS	:VHS Index Search System
	FSC	:Subcarrier Frequency		VPS VR	:Video Program System :Variable Resistor or Volume
	FN	:Frequency Voltage		V-SYNC	:Variable Resistor or Volume :Vertical Synchronization
G	GEN	:Generator	-	VTG	:Vertical Synchronization :Voltage
			•	VV	:Vollage :Video to Video
Н	H	:High, Horizontal	-	VXO	:Video to video :Voltage X-tal Oscillator
1	ic	:Intergrated Circuit	w	W	:Watt
	IF.	:Intermediate Frequency	**	WHT	:watt :White
	INS	:Insert		W/O	:Write :With Out
L	L_	:Low, Left, Coil	v		
	LD	:Loading	X	X-TAL	:Crystal
	LD VTG CTL	:Loading Voltage Control	Υ	Y/C	:Luminance/Chrominance
	LECHA	:Letter Character		YNR	:Luminance Noise Reduction
	L.M LP	:Level Meter .Long Play	Z	ZD	:Zener Diode

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

· Precautions during Servicing

- 1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the <u>A</u> symbol and shaded (<u>III</u>) parts are critical for safety. Replace only with specified part numbers.

Note:Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- 3. Use Specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistor
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.(Fig. 1)
- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15Kg of force in any direction will not loosen it.(Fig. 2)
- 9. Also check areas surrounding repaired locations.

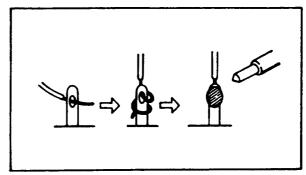


Fig. 1

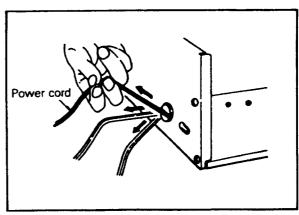


Fig. 2

- 10. Products using cathode ray tubes (CRTs)
 - In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the parts specified. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

· Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts

of the set(RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

• Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

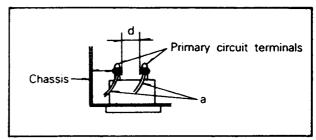


Fig. 3

Table 1:Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*110 to 130 V 200 to 240 V	Europe Australia	≧10 MΩ/500 V DC	4kV 1 minute	≩6mm(d) ≥8mm(d) (a Power cord)

^{*}Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between Blearth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

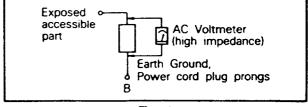


Fig. 4

Table 2:Leakage current ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to:
100 to 130 V	Europe	0—- ₩}—• 2kΩ	i≤0.7m A peak i≤2m A dc	Antenna earth terminals
200 to 240 V	Australia	•—-₩—• 50kΩ	i≦0.7m A peak i≤2m A dc	Other terminals

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INTRODUCTION

This service manual provides a variety of service information. It contains the mechanical structure of the Double Deck Video Cassette Recorder together with mechanical adjustments and the electronic circuits in

schematic form. This Double Deck VCR was manufactured and assembled under our strict quality control standards and meets or exceeds industry specifications and standards.

FEATURES

- the VHS and Hi 8mm system with HQ-picture technology for extraordinary picture sharpness and high resolution.
- Hi-Fi stereo for excellent sound quality including a NICAM sound decoder.
- · the channels will be preset and memorized automatically.
- automatic power and playback.
- four VHS video heads for a clear still image and a variable slow motion.
- three Hi 8mm video heads for Hi 8mm playback, standard 8mm playback also possible.
- · assemble editing from 8 mm tape to VHS tape.
- the easy searching of your recordings by automatic and manual index marking, which can also be erased.
- the blank search system for searching the unrecorded portion of the tapes.

- · the quick mechanism for fast tape function transitions.
- the long play VHS recording and playback facility.
- the real time tape counter and the VHS remaining tape time display.
- eight programme timer, programmable up to one year in advance, can be set for daily or weekly recording.
- the on-screen display of many functions e.g. the stored timer programmes.
- and many more, like additional Euro-AV sockets, audio dubbing, child lock, immediate recording timer, and title generator.
- built-in ShowView Programming: Optional Function ShowView is a trademark applied for by Gemstar Development Corp.

ShowView system is manufactured under license from Gemstar Development Corporation.

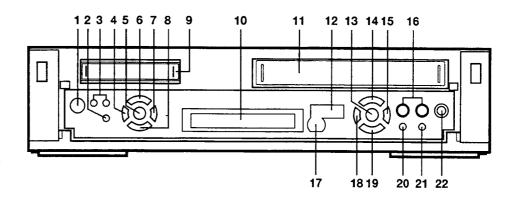
SPECIFICATIONS

General Power supply: Power consumption: Cabinet size(W×H×D): Weight: Operating temperature: Operating humidity:		AC 230V (\pm 10%), 50Hz Approx. 35W 430 \times 99 \times 390mm Approx. 8.2Kg 5° C to 35° C surrounding temperature 35-80%
8 mm Player section		
Format:		8 mm PAL Standard
Heads:		3 video heads
Tape speed :	(SP)	20.05 mm/sec.
T	(LP)	10.025 mm/sec.
Tape width:		8 mm
Video output :		1 Vpp 75 ohm unbalanced
Audio output :		0 dBm, less than 1 Kohm
VHS Recorder section		
Format:		VHS PAL Standard
Heads:	(OD)	4 video heads
Tape speed:	(SP)	23.39 mm/sec.
Tapa width .	(LP)	11.635 mm/sec.
Tape width: Video:		12.7 mm
Recording/playback time :		PAL B/G
recording/playback time.		300 min. (LP : 600 min.)
Aerial input :		with E-300
henai input.		PAL: VHF 01-11
		UHF 21-69
		CATV S01-S41
RF output:		HYPER 71-73
Video input:		UHF channels 32~40 (Variable)
Video output :		1 Vpp 75 ohm unbalanced
S/N ratio (video) :		1 Vpp 75 ohm unbalanced 45dB nominal
Audio input :		0dBm, more than 50 Kohm
Audio output :		0dBm, less than 1 Kohm
Audio track:		Mono track & Hi-Fi tracks
S/N ratio (audio) :		NORMAL: >45dB/Hi-Fi: >68dB (JIS A FILTER)
Audio frequency range:		NORMAL: 100Hz-10kHz (-6/+3)
4		Hi-Fi: 20Hz-20kHz
Audio dynamic range:		Hi-Fi Audio: >75dB (JIS A FILTER)
* Designs and englifications are subject to change	uithout notic	

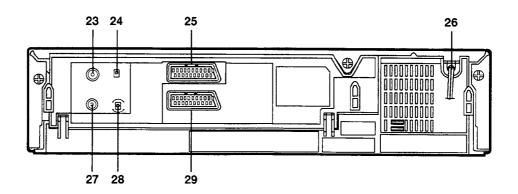
^{*} Designs and specifications are subject to change without notice.

LOCATION OF CUSTOMER CONTROLS

FRONT



REAR



- 1. OPERATE ON/OFF BUTTON
- 2. OTC BUTTON

8 mm Player section

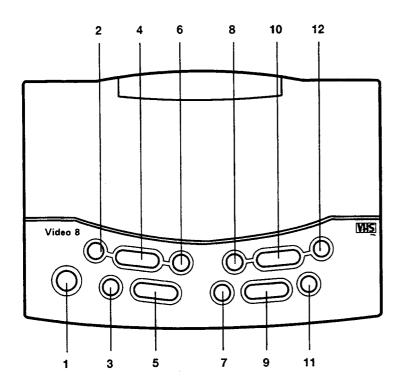
- 4. REWIND/REVIEW BUTTON
- 5. STOP/EJECT BUTTON
- 6. PLAY BUTTON
- 7. FAST FORWARD/CUE BUTTON

VHS Recorder section

- 11. CASSETTE COMPARTMENT
- 12. AUDIO LEVEL METER
- 13. STOP/EJECT BUTTON
- 14. PLAY (×2) BUTTON
- 15. FAST FORWARD/CUE BUTTON
- 16. AUDIO RECORDING LEVEL CONTROLS (L/R)
- 17. REMOTE CONTROL SENSOR (8mm & VHS)
- 18. REWIND/REVIEW BUTTON
- 19. P/STILL BUTTON
- 20. RECORD BUTTON

- 3. PR/TRK (-/+) BUTTONS
- 8. STILL BUTTON
- 9. CASSETTE COMPARTMENT
- 10. MULTI FUNCTION DISPLAY (8mm & VHS)
- 21. AUDIO DUBBING BUTTON
- 22. MIC IN JACK
- 23. AERIAL INPUT SOCKET
- 24. TPSG ON/OFF SWITCH
- 25. EURO-AV 1 SOCKET
- 26. MAINS LEAD
- 27. RF OUTPUT
- 28. VIDEO CHANNEL CONTROL
- 29. EURO-AV 2 SOCKET

REMOTE CONTROL



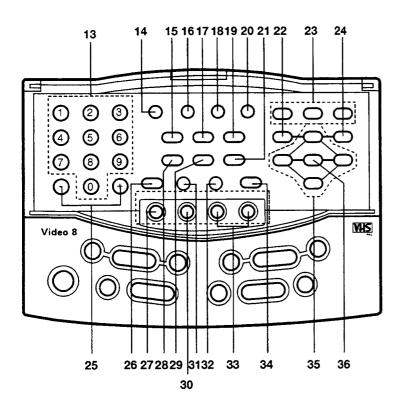
1. OPERATE ON/OFF BUTTON

8 mm Player section

- 2. REWIND/REVIEW BUTTON
- 3. STILL BUTTON
- 4. PLAY BUTTON
- 5. STOP BUTTON
- 6. FAST FORWARD/CUE BUTTON

VHS Recorder section

- 7. P/STILL BUTTON
- 8. REWIND/REVIEW BUTTON
- 9. STOP BUTTON
- 10. PLAY (×2) BUTTON
- 11. FRAME ADVANCE BUTTON
- 12. FAST FORWARD/CUE BUTTON

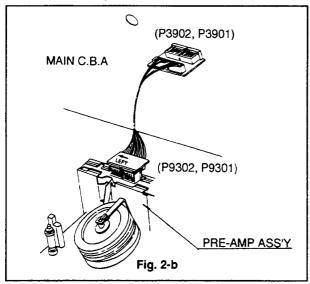


- 13. NUMBER BUTTONS
- 14. TAPE SPEED SELECT BUTTON (LP)
- 15. MIC MIX BUTTON
- 16. TV/VCR BUTTON: *
- 17. CHILD LOCK BUTTON
- 18. MONITOR BUTTON
- 19. TU/AV BUTTON
- 20. SHOWVIEW BUTTON: *
- 21. REC/QSR BUTTON
- 22. MENU BUTTON
- 23. VISS BUTTONS
- 24. CLEAR BUTTON
- 25. PR/TRK (+/-) BUTTONS
- 26. AUTO TRACKING BUTTON
- 27. EDIT BUTTON
- 28. B.SEARCH BUTTON
- 29. AUDIO DUBBING BUTTON
- 30. OTC BUTTON
- 31.8mm RESET BUTTON
- 32. VHS RESET BUTTON
- 33. SLOW BUTTONS
- 34. RESET BUTTON
- 35. CURSOR BUTTONS
- 36. OK BUTTON
- * * : Optional Function

SECTION 2 CABINET & MAIN FRAME SERVICE FIXTURE CONNECTING METHOD

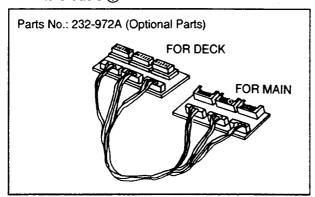
1. SVC FIXTURE Connecting Method

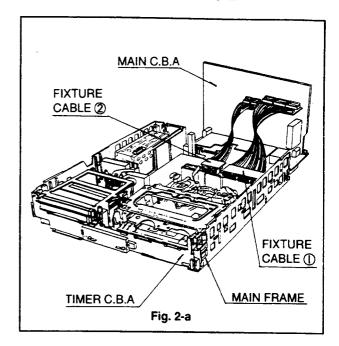
- A. FIXTURE Cable (1) Connecting Method.
- a) Connect the FIXTURE Cable (1) between Main C. B.A and Junction C.B.A. (P2J01, P2J02, P2J03)
- b) At this time, should be in the left side " ← LEFT" mark on the P.C.B of the FIXTURE Cable ①. (See Fig. 2-a, 2-c)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable ① with the Main C.B.A and the connector of "JUNCTION" mark with the Junction C.B.A. (See Fig. 2-a, 2-c)
- B. FIXTURE Cable @ Connecting Method.
- a) Connect the FIXTURE Cable ② between Main C. B.A and Pre-Amp Ass'y. (P3901=P9301, P3902=P9302)
- b) At this time, should be in the left side " ← LEFT" mark on the P.C.B of the FIXTURE Cable ②. (See Fig 2-a, 2-b)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable ② with the Main C.B.A and the connector of "JUNCTION" mark with the Pre-Amp Ass'y. (See Fig. 2-a, 2-b)

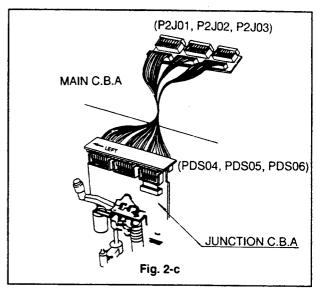


2. Electrical Service Fixture List

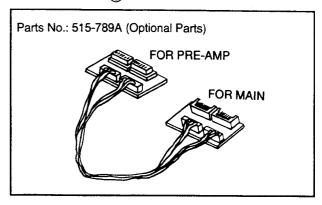
A. Fixture Cable (1).







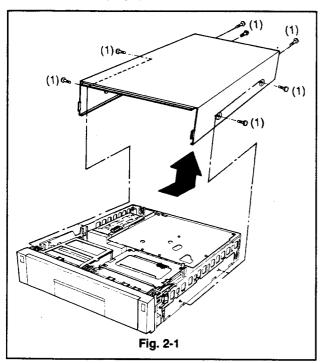
B. Fixture Cable 2.



CABINET DISASSEMBLY

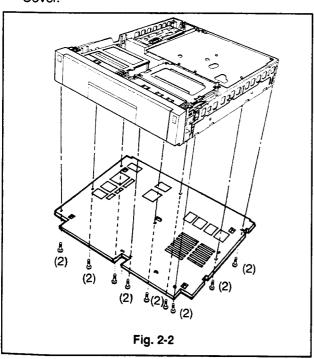
1. Top Case

- A. Release 7 screws (1).
- B. Hold the back of Top Case and lift it up slightly backward to remove it.



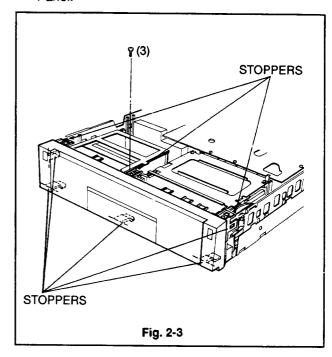
2. Bottom Cover

A. Release 9 screws (2) to remove the Bottom Cover.



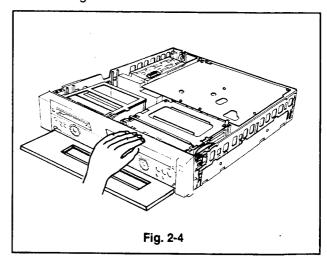
3. Front Panel

- A. Release 1 screws (3).
- B. Remove the stoppers on the top of Front Panel.
- C. Remove the stoppers on the bottom side Front Panel.



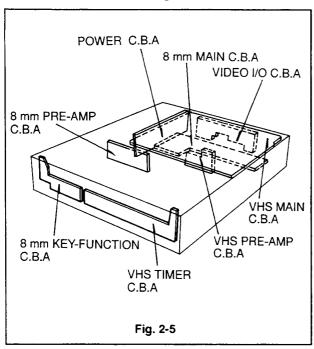
* Caution

When reassemble the Front panel, assemble it in condition of inserting the Door Cassette inside, as shown in Fig.2-4



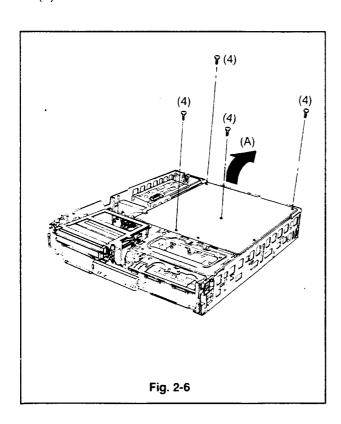
CIRCUIT BOARD DISASSEMBLY

1. Circuit Board Arrangement



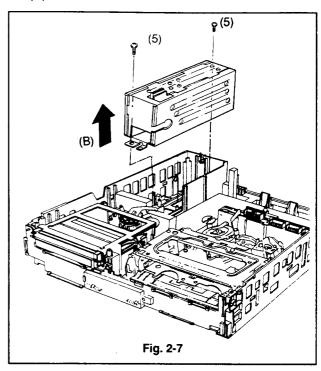
2. VHS Main Circuit Board

- A. Release 4 screws (4).
- B. Remove the Main C.B.A in the direction of arrow (A).



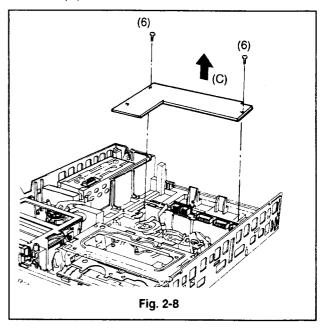
3. Power Circuit Board

- A. Remove the Bottom Cover. (Fig. 2-2)
- B. Release 2 screws (5).
- C. Remove the Power C.B.A in the direction of arrow (B).



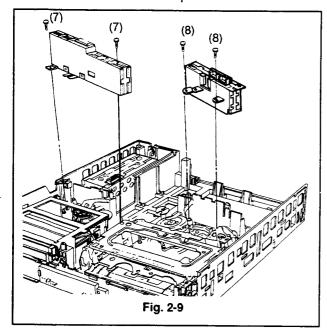
4. 8mm Main Circuit Board

- A. Release 2 screws (6).
- B. Remove the 8mm Main C.B.A in the direction arrow (C).



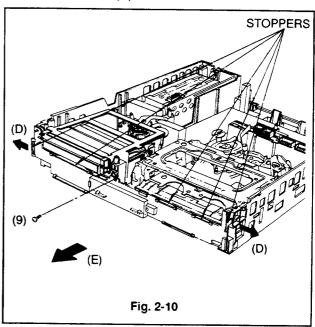
5. 8mm/VHS Pre-Amp Circuit Board

- A. Release 2 screws (7).
 B. Remove the 8mm Pre-Amp C.B.A.
- C. Release 2 screws (8).
- D. Remove the VHS Pre-Amp C.B.A.



6. 8 mm/VHS Key Function Circuit Board

- A. Release 1 screw (9).
- B. Release 9 stoppers in the direction arrow (D).
 C. Remove the 8mm/VHS Key Function C.B.A in the direction arrow (E).



• Cabinet & Main Frame Section Replacement Parts List

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARK
			ASSEMBLY PART	S SECTION	
	A40	315-314N	FRAME	ASSY MAIN	NSP
	A41	3501R-0249A	BOARD ASSY	KEYBOARD 2NDDD1S	NSP
	A42	3501R-0248A	BOARD ASSY	TIMER 2NDDD1S	ì
	A43	258-722K	PANEL		ļ
	A44	3501R-0247B	BOARD ASSY	ASSY FRONT	i
1	A45	501-522A	MODULE	SMPS	1
	A45 A46	3501R-0245D		PRE AMP ASSY	
	1		BOARD ASSY	MAIN	İ
	A47	3501R-0251A	BOARD ASSY	8MM PRE-AMP	
L	A48	3501R-0246A	BOARD ASSY	8MM MAIN	
			PARTS SEC	TION	
	250	217-472C	CASE	TOP	
	251	321-526A	BRACKET	HOUSING	1
1	260	315-300B	FRAME	MAIN	NSP
	262	257-061A	PLATE	GND (FTZ)	NSP
	263	324-976A	HOLDER	PWB	NSP
	275	324-872A	HOLDER	DIGITRON	NOP
	278	273-116A	KNOB	TRACKING	1
	280	258-717E	PANEL	FRONT	
	282	220-075F	COVER	ASSY DOOR	NSP
	283	226-104D	DOOR	CST	
	284	442-469A	SPRING	DOOR	
	288	524-013A	MAGNET		
	289	321-718A	····	ASSY DOOR	
	290	321-719A	BRACKET	ASSY COVER DOOR	
	290		BRACKET	ASSY DAMPER	1
		435-465B	GEAR	ASSY DAMPER(T;60)	1
	300 320	681-951A	CORD	H03VVH2-F 2X0.75MM LP21R/PE221	
		258-596G	PANEL	ASSY DISTRIBUTOR	
	321	257-006A	PLATE	BOTTOM GROUND	
	330	221-834A	COVER	воттом	ļ
	340	226-064J	DOOR	CST 8MM	1
	341 342	442-591A 340-088A	SPRING HOLDER	DOOR ASSY DIAM PRIM	
	042	340-000A	NOLDER .	ASSY P/AMP 8MM	<u></u>
			SCREW		
	452	353-046C	SCREW	(3X10 FZMY)	
	452	353-051A	SCREW	SPECIAL(3X10 FZMY)	1
	459	353-046C	SCREW	(3X10 FZMY)	1
	462	353-136A	SCREW	SPECIAL(4.6X12.5 FBK)	1
i I	472	353-090A	SCREW	SPECIAL TP	1

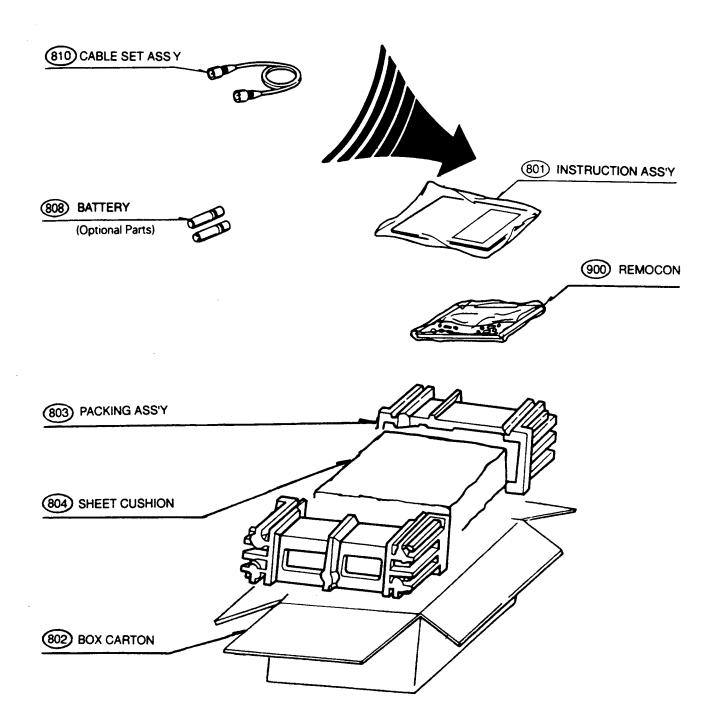
_				RUN : DATE : 95. 09. 2
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			CIRCUIT E	SOARD ASSEMBLY
		PBIO0 PBJT0 PBM00 PBT00	6871R-0252A 515-908B 6871R-0245D 6871R-0248A	I/O BOARD (2NDDD1S) JUNCTION 2 (G/S) VHS MAIN (DV13P 3GL1) TIMER 2NDDD1S

2-5

2-6

В

2. Packing Accessory Section

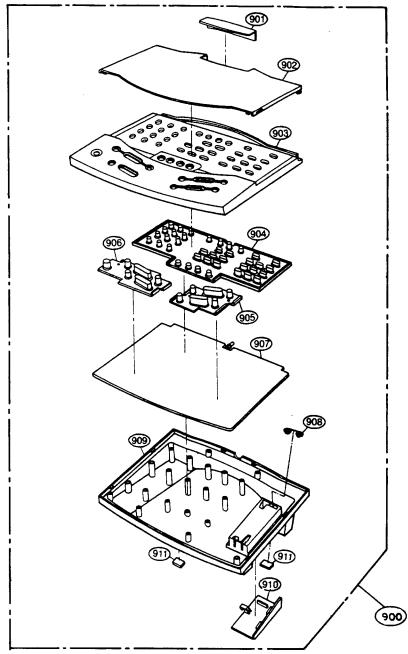


• Replacement Parts List

RUN DATE: 95.09.27
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	480-657G	INSTRUCTION ASSY		
l		802	290-371A	BOX CARTON		
		803	283-217A	PACKING		
l		804	291-002D	SHEET CUSHION		NSP
1		808	534-008C	BATTERY	AAAM(R03) 1.5V 1PAIR(LOCAL)	l
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

3. Remote Control Section



• Replacement Parts List

RUN DATE: 95.09.27
NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	597-121F	REMOTE CONTROL	2ND D/DECK ASSY	
		901	236-558A	WINDOW	FILTER(2ND D/D)	NSP
		902	220-084A	COVER	D/D3 R/C	NSP
		903	217-485J	CASE	TOP	NSP
		904	275-699B	BUTTON	2ND D/DEC	NSP
		905	275-612A	BUTTON	RUBBER VHS (R/C)	NSP
		906	275-611C	BUTTON	RUBBER 8MM (R/C)	NSP
1		907	515-824E	PWB ASSY!	REMOCON (2ND DOUBLE DECK)	NSP
ŀ		908	442-611A	SPRING	COIL (R/C)	NSP
		909	217-486D	CASE	ВОТТОМ	NSP
		910	221-857D	COVER	BATTERY	
		911	477-054A	RUBBER	BUMPON	NSP

SECTION 3 ELECTRICAL ELECTRICAL ADJUSTMENT PROCEDURES

• Electronic Test Equipment Requirement

- Oscilloscope
- · Video signal Generator
- · Level Meter
- Frequency Counter
- + Driver
- Test Tape (SP)-PAL, (VHS, 8mm)
- Test Tape (SP)-PAL Stereo
- (8mm)
- Recording Tape (VHS)
- Digital Multimeter

1. VHS Circuit Adjustment

1-1. Servo Circuit

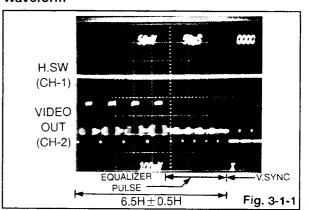
1-1-1. PG Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK	6.5H±0.5H (1H=64.0µsec)	TP201 (H.SW) TP202 (V.Out terminal)	VR201

Procedure:

- a. Connect CH-1 of oscilloscope to TP201 (H.SW) and CH-2 to TP202 (Video Out terminal).
- b. Playback a VHS PAL SP test tape.
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR201 so that the distance from switching point of H.SW signal to the starting point of vertical synchronized signal is $6.5H \pm 0.5H (416 \pm 32\mu sec)$.

Waveform



1-2. Audio Circuit

1-2-1. Record Bias Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD (SP)	2.5 ± 0.1 mV	R473 Both Terminal	VR403

Procedure:

- a. Connect (+), (-) terminal of Level Meter to both terminals R473.: TP403 (+), TP404 (-)
- b. Loading the recording tape and record.
- c. Adjust VR403 so that the oscillation voltage fit to specification.

1-2-2. VCO (Record Current Frequency) Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
AV/EE	1.4MHz±5kHz	IC402 Pin (\$)(TP401)	VR401
(without signal)	1.8MHz±5kHz	IC402 Pin (10 (TP402)	VR402

Procedure:

- a. Disconnect the P4904 connector Ass'y from VHS Main circuit board.
- b. Connect the P4904 Pin 4 to the P4904 Pin 5.
- c. Connect the Frequency Counter to IC402 Pin (TP401) and adjust VR401 so that the Frequency Counter is 1.4MHz±5kHz.
- d. Connect the Frequency Counter to IC402 Pin (2) (TP402) and adjust VR402 so that the Frequency Counter is 1.8MHz±5kHz.

Reference)

The set and the Frequency Counter should be connected with 1:1 probe.

1-3. Tuner/IF Circuit

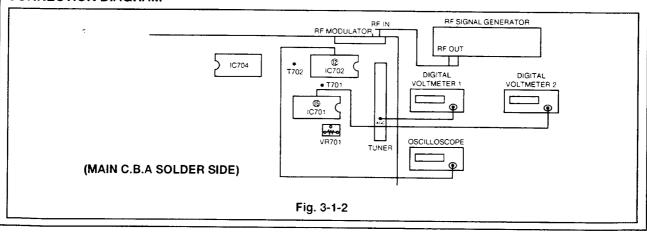
1-3-1. AFC Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
CH-11 (217.25MHz) PAL B/G Reception	DC 2.5V±0.1V	IC701 Pin (5) (AFC TP)	T701

Procedure:

- a. Connect as shown in Fig. 3-1-2.
- b. Receive the CH-11 (217.25MHz, strength of RF electric field : $70dB\mu V$).
- c. Adjust T701 so that the Digital voltmeter 2 is DC 2.5 ± 0.1 V.

CONNECTION DIAGRAM



1-3-2. RF AGC Adjustment

MODE	SPECIFICATION MEASUREMENT POINT		ADJUSTMENT POINT
CH-11 (217.25MHz) Normal Reception	DC 5.5±0.1V	Tuner AGC Terminal (AGC TP701)	VR701

Procedure:

- a. Connect as shown in Fig. 3-1-2.
- Receive the CH-11 (217.25MHz, strength of RF electric field : 70dBμV).
- c. Adjust VR701 so that the Digital voltmeter 1 is DC 5.5 ± 0.1 V.

1-3-3. SIF Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
CH-11 (217.25MHz) Normal Reception	Refer to waveform	IC702 Pin @ (SIF TP703)	T702

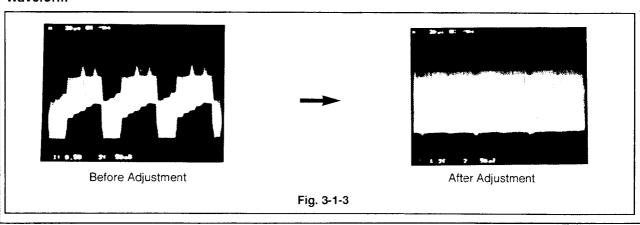
Procedure:

- a. Connect as shown in Fig. 3-1-2.
- b. Receive the CH-11 (217.25MHz, strength of RF electric field : $70dB\mu V$).
- c. Adjust T702 so that the waveform of oscilloscope is as shown in Fig. 3-1-3.

d. Setting mode of oscilloscope

Time: 20µ sec. Voltage: 0.5V.

Waveform



*Caution in testing

- 1. When practing this adjustment, adjust after more than 10minutes with TV set turning on.
- 2. Adjust after completing itself test of measuring apparatus.
- 3. Sweep OSC marker frequency is followed by Table 1.

*Abbreviation

- · APC : Adjacent Picture Carrier
- SIF : Sound Intermediate FrequencyCIF : Color Intermediate Frequency
- CEN: Center Frequency
- PIF : Picture Intermediate Frequency
- · ASC : Adjacent Sound Carrier

Table 1 Frequency Table

(MHz)

BROADCASTING	ADJUSTMENT MARKER FREQUENCY					
SYSTEM	APC	SIF	CIF	CEN	PIF	ASC
PAL B/G	31.90	33.40	34.47	36.00	38.90	40.40

2. 8mm Circuit Adjustment

2-1. Servo Circuit

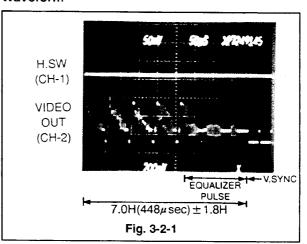
2-1-1. PG Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK	7H±1.8H (1H=64.0⊭sec)	P2814 Pin (③ (H.SW) PV402 Pin () (V.Out terminal)	VR202

Procedure:

- a. Connect CH-1 of oscilloscope to TP801 (P2814 Pin ③, H.SW) and CH-2 to TP802 (PV402 Pin ①, Video Out terminal).
- b. Playback a 8mm PAL SP test tape.
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR202 so that the distance from switching point of H.SW signal to the starting point of vertical synchronized signal is $7H \pm 1.8H$ ($448 \pm 115.2\mu$ sec).

Waveform



2-2. Y/C Circuit

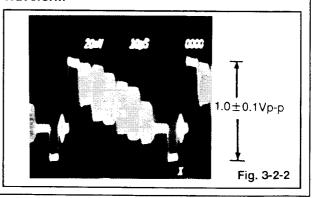
2-2-1. Playback Output Level Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	1.0±0.1Vp-p	TP3A1 (8mm Video Out)	VR3A0

Procedure:

- a. Connect CH-1 of oscilloscope to TP3A1.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust VR3A0 so that Video out level is 1.0 ± 0.1 Vp-p.
- d. If only measurement point is the Video out Jack (SCART Jack), specification is 2±0.2Vp-p.

Waveform



2-2-2. Color VCO Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	DC 2.5±0.1V	TP3A2	FL3A1

Procedure:

- a. Connect CH-1 of oscilloscope to TP3A2.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust FL3A1 so that DC level is 2.5 ± 0.1 V.

2-3. Audio Circuit

2-3-1. VCO Adjustment

MODE	SPECIFICATION MEASUREMENT POI		ADJUSTMENT POINT
STOP	DC 2.05±0.1V	TP4A2	VR4A0
		TP4A4	VR4A4

Procedure:

- a. Connect the Digital Multimeter to TP4A2 and adjust VR4A0 so that the Digital Multimeter is DC2.05 \pm 0.1V.
- b. Connect the Digital Multimeter to TP4A4 and adjust VR4A4 so that the Digital Multimeter is DC2.05 \pm 0.1V.

2-3-2. Deviation (L) Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	0 ± 0.5 dBm	SCART AUDIO (L) OUT	VR4A1

Procedure:

- a. Connect the (+) terminal of Level Meter to SCART Audio (L) Out.
- b. Playback a 8mm PAL Mono test tape.
- c. Adjust VR4A1 so that level is 0 ± 0.5 dBm.

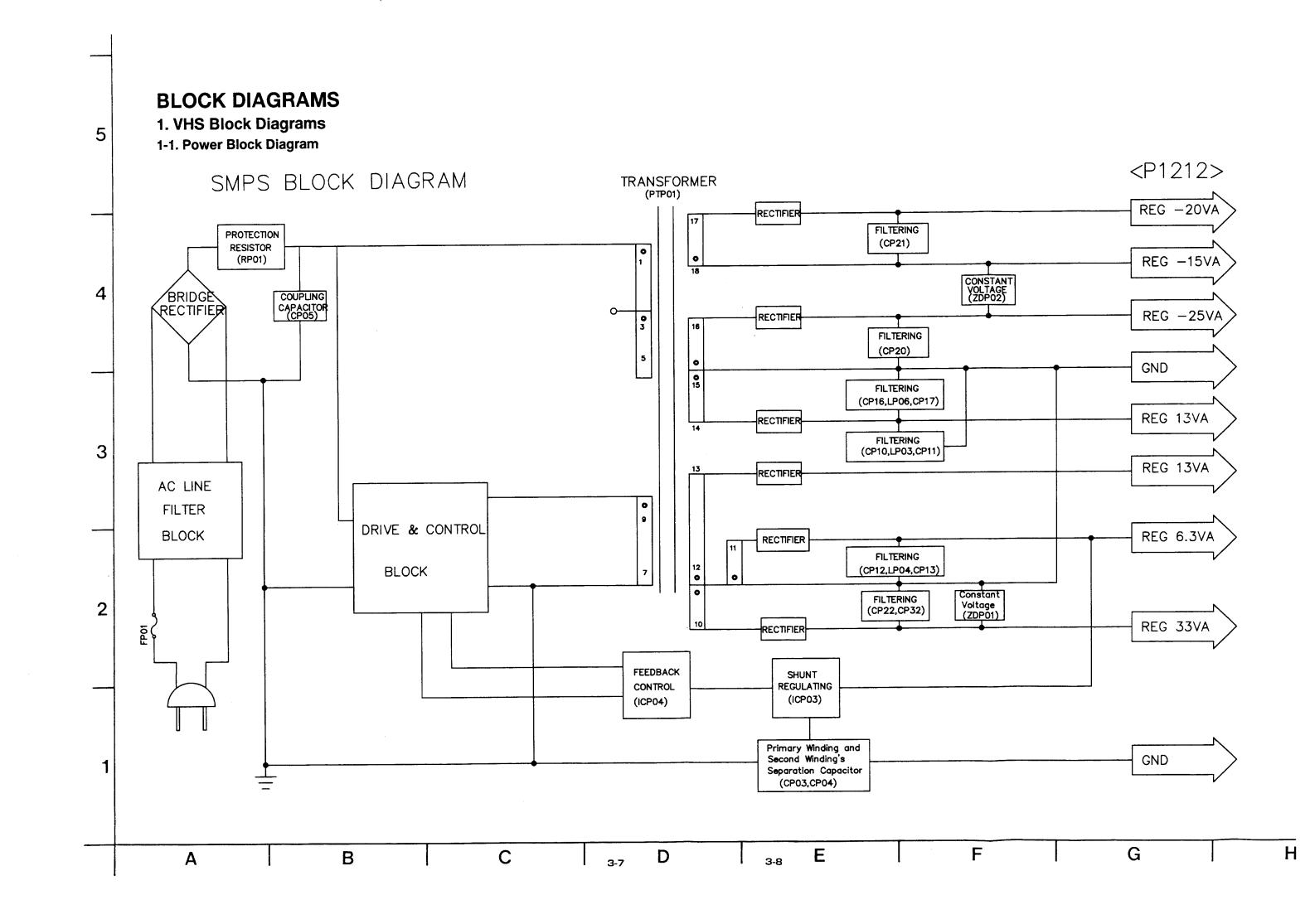
2-3-3. Deviation (R) and Matrix Adjustment

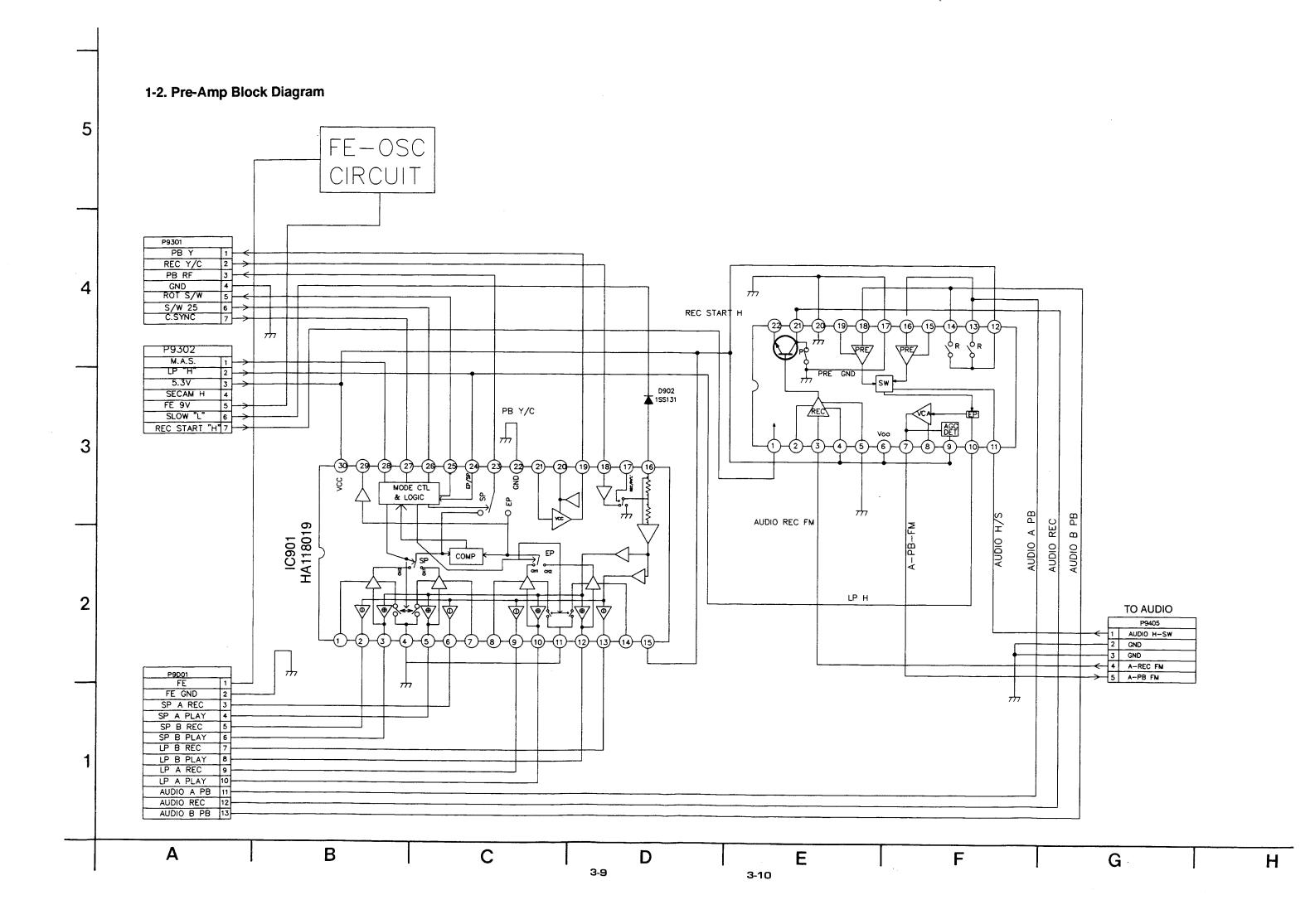
MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	0 ± 3dBm	SCART AUDIO (R) OUT	VR4A3
	0 ± 3dBiii	SCART AUDIO (L), (R) OUT	VR4A2

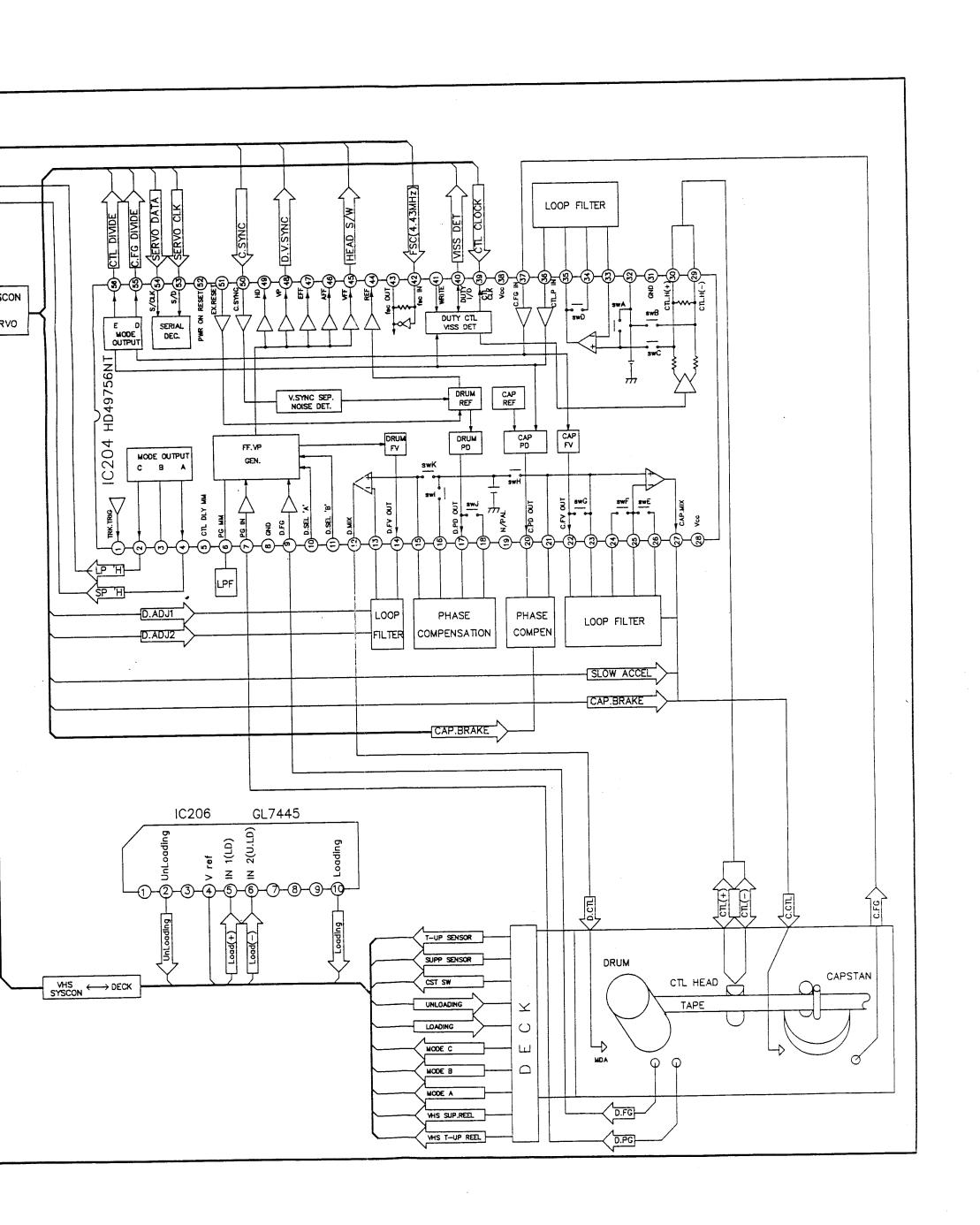
Procedure:

- a. Connect the (+) terminal of Level Meter to SCART Audio (R) Out.
- b. Playback a 8mm PAL Stereo test tape.
- c. Adjust VR4A3 so that level is 0 ± 3 dBm.
- d. And then, connect the CH-1 of oscilloscope to SCART Audio (L) Out.
- e. Connect the CH-2 of oscilloscope to SCART Audio (R) Out.
- Adjust VR4A2 so that the separation of stereo is done well.

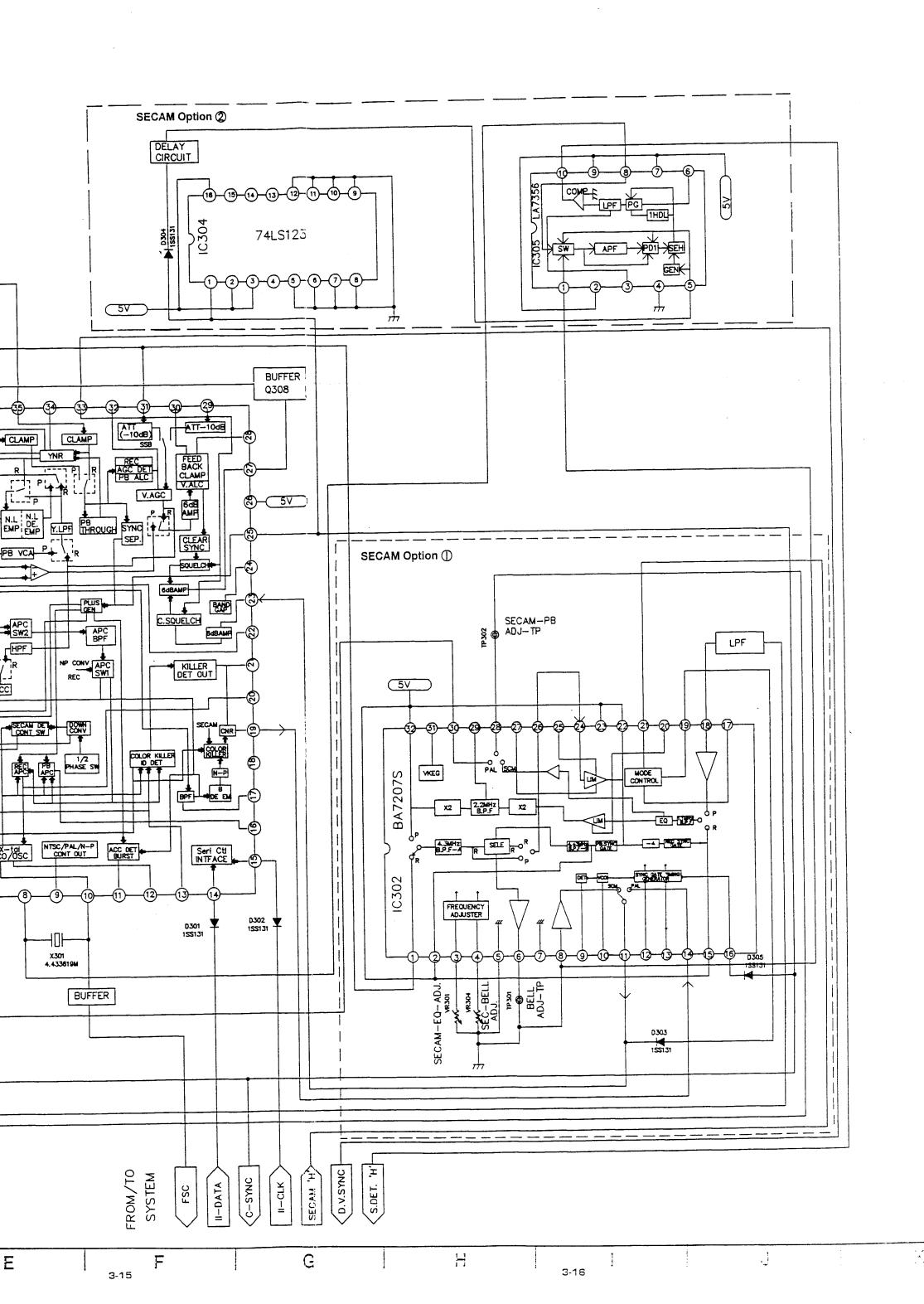
MEMO



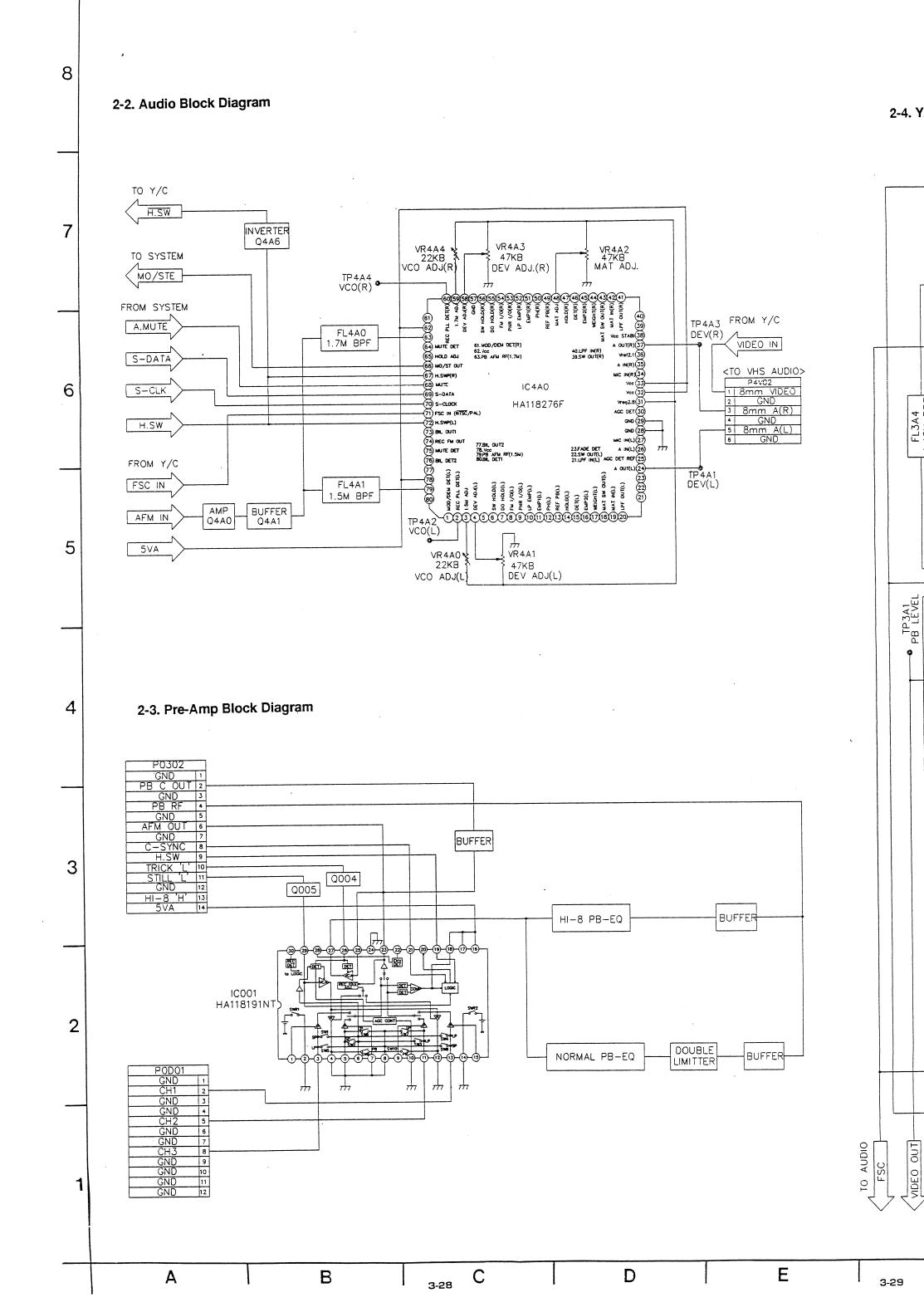


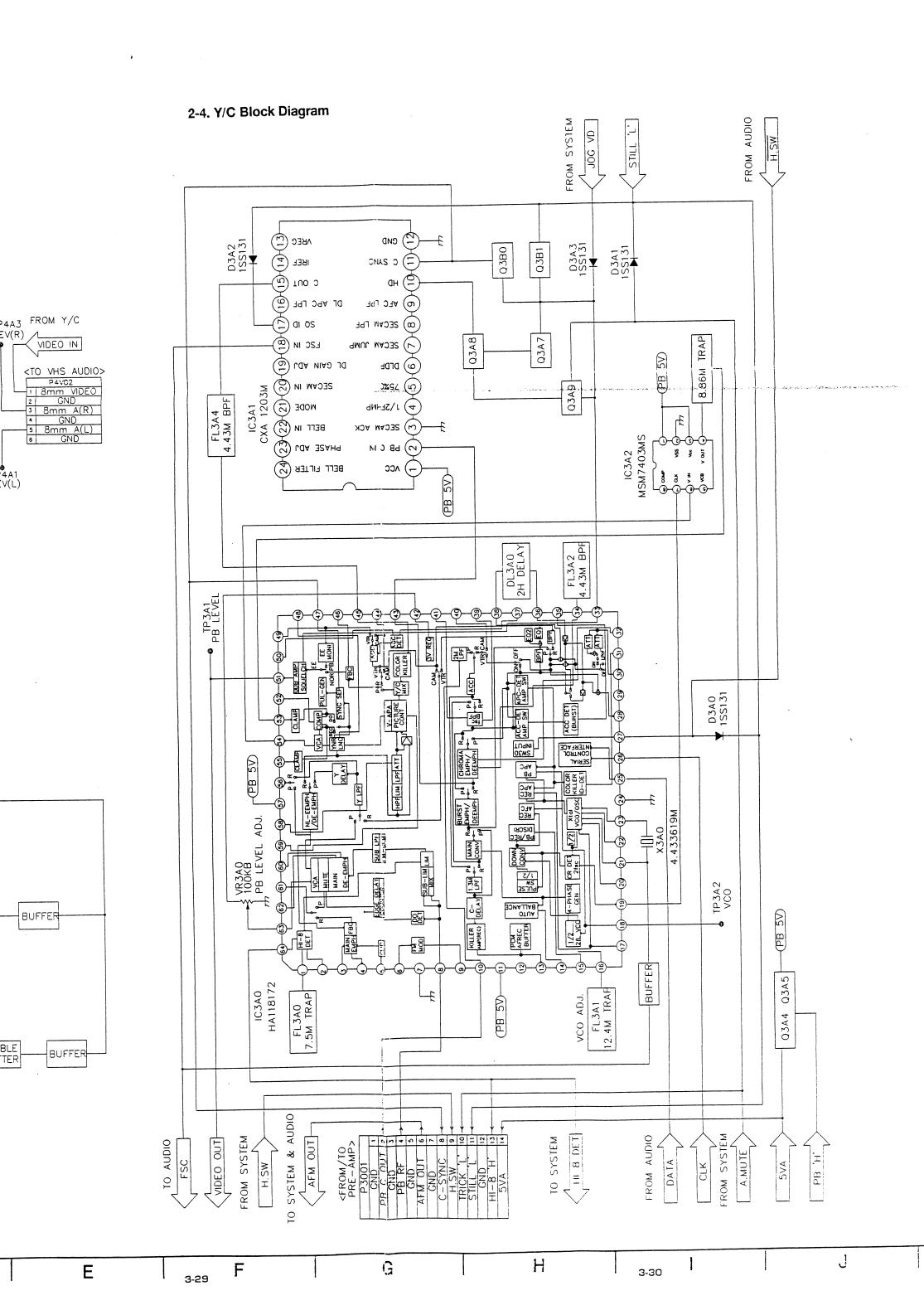


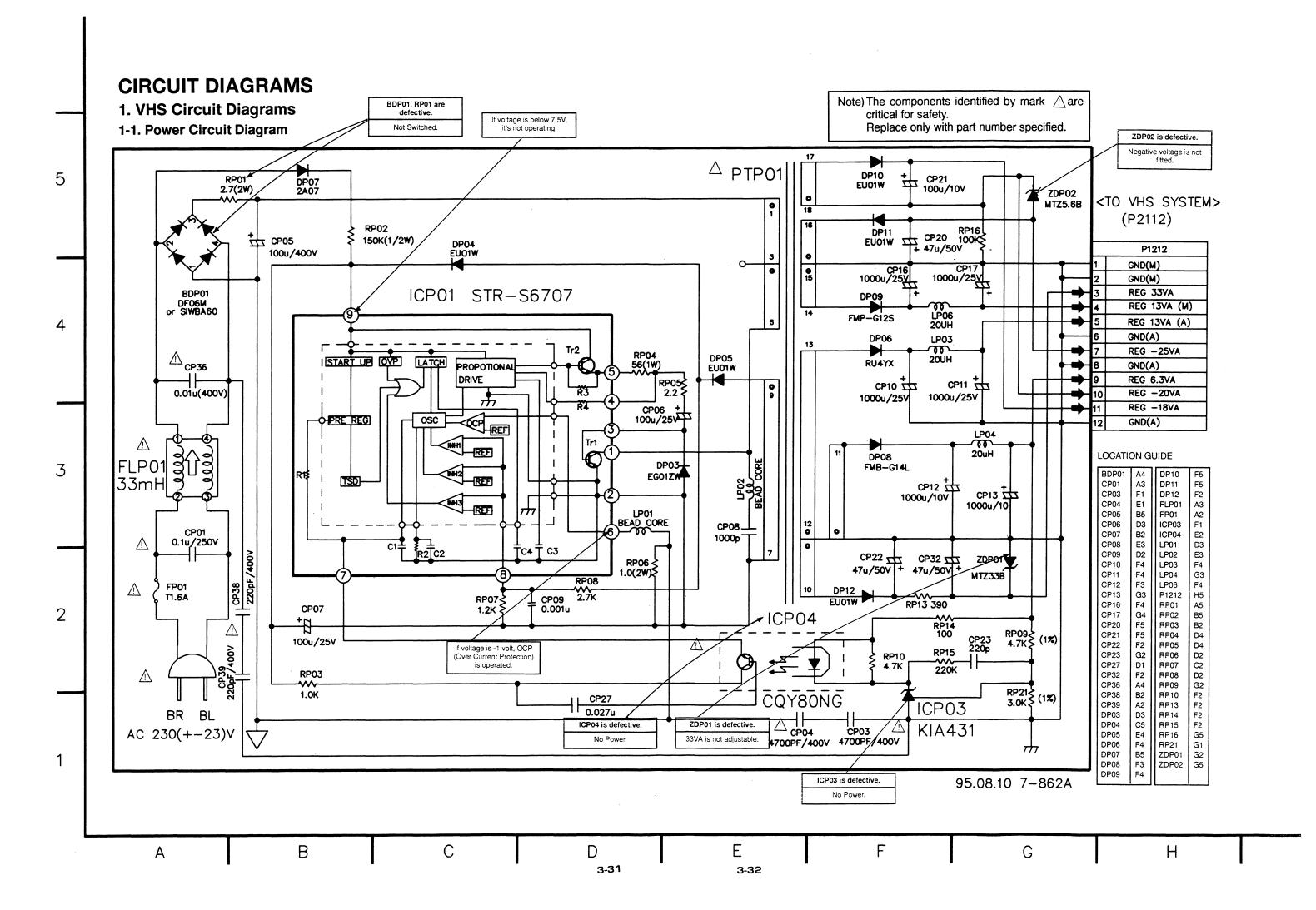
F G H 3-13



Н



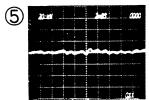




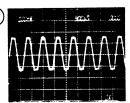
* VHS System Waveform



IC204 Pin ①
Tracking Trigger
(100mV/10msec)



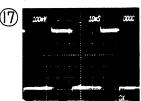
IC204 Pin ②
Capstan Control
(20mV/2msec)



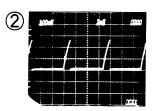
IC204 Pin ③
Capstan Frequency Generator Input (100mV/500µsec)



IC204 Pin ® C-SYNC Input terminal (100mV/5msec)



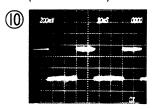
IC204 Pin
Control Count Down
Output terminal
(100mV/10msec)



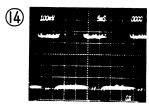
IC204 Pin (§)
PG Mono-Multi
(100mV/2msec)



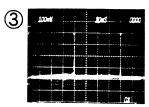
IC204 Pin ⁽²⁾
Record Control (-)
(100mV/10msec)



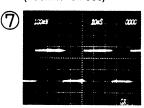
IC204 Pin 39 Control Clock (200mV/10msec)



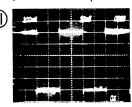
IC204 Pin
Servo Data Input terminal (100mV/5msec)



IC204 Pin ①
PG Input
(100mV/10msec)

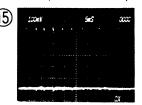


IC204 Pin ③
Record Control (+)
(100mV/10msec)

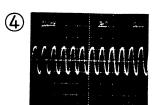


IC204 Pin

Video Head Switching
Pulse (100mV/10msec)



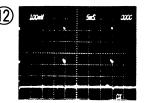
IC204 Pin
Servo Clock Input terminal (100mV/5msec)



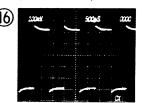
IC204 Pin (9) Drum Frequency Generator Input (100mV/2msec)



IC204 Pin ③
Playback Control Pulse (50mV/10msec)



IC204 Pin [®]
Vertical Pulse (VP)
(100mV/5msec)



IC204 Pin (5)
CFG (Capstan Frequency
Generator) Count Down
Output terminal
(100mV/500µsec)

• VHS System IC Voltage Sheet

IC201 (M38185EEFP)

PB (REC) [V]

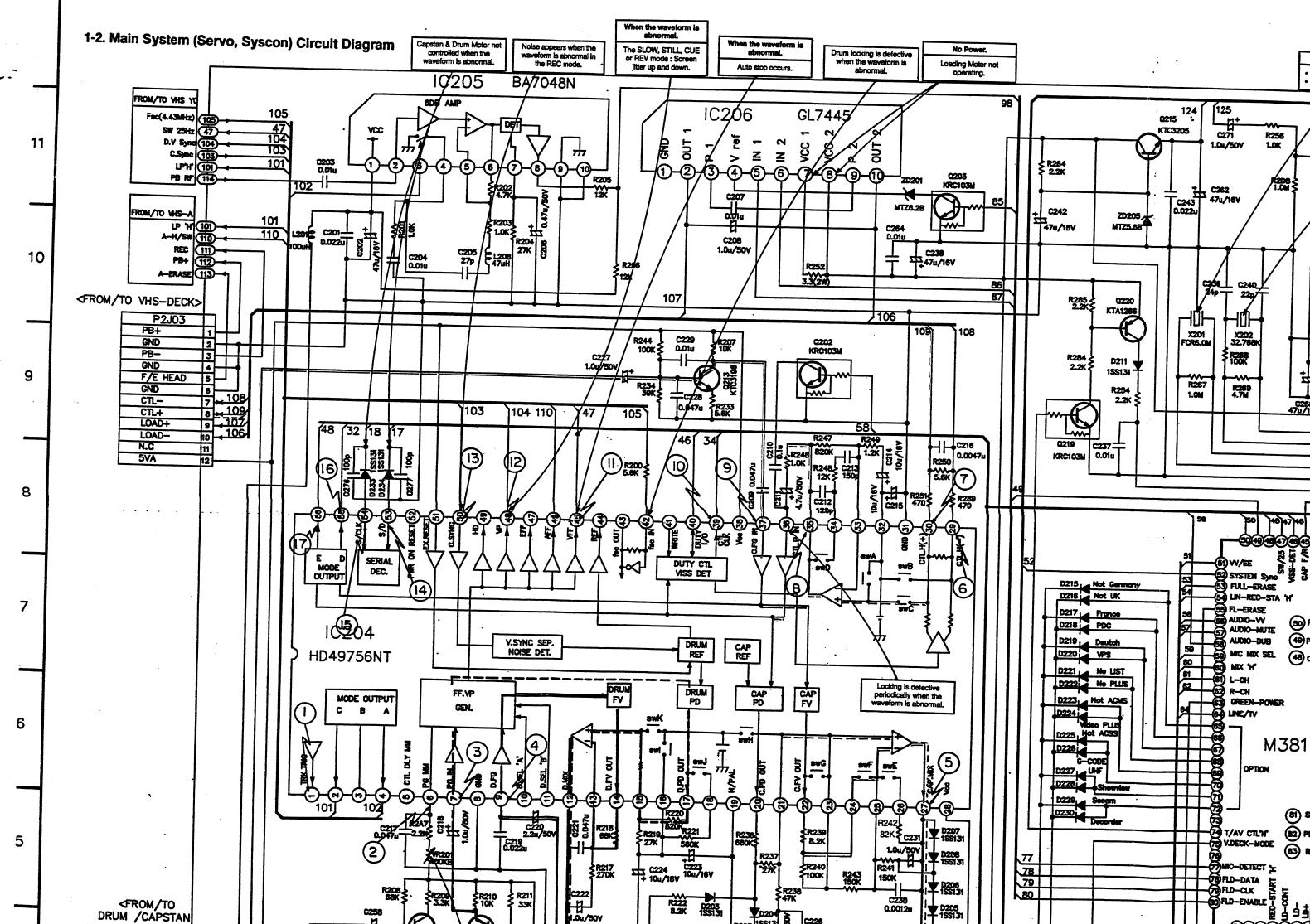
Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V] 0.00 (0.00)				
1	0.187 (0.20)	35	5.48 (5.46)	69					
2	0.307 (4.67)	36	2.43 (2.40)	70	0.00 (0.00)				
3	4.45 (4.53)	37	2.70 (2.71)	71	0.00 (0.00)				
4	5.18 (5.25)	38	2.48 (2.50)	72	0.00 (0.00)				
5	5.16 (5.23)	39	2.64 (2.66)	73	0.00 (0.00)				
6	4.60 (4.60)	40	5.36 (0.00)	74	5.45 (5.45)				
7	5.31 (5.30)	41	5.48 (5.46)	75	0.11 (0.11)				
8	5.31 (5.32)	42	5.47 (5.46)	76	3.49 (3.47)				
9	5.30 (5.32)	43	0.02 (5.46)	77	0.02 (0.00)				
10	5.26 (5.23)	44	0.00 (0.00)	78	0.01 (0.69)				
11	2.67 (2.61)	45	5.33 (0.00)	79	4.98 (5.13)				
12	0.00 (0.00)	46	2.66 (5.27)	80	4.25 (4.32)				
13	0.00 (0.00)	47	2.69 (2.70)	81	5.48 (5.45)				
14	0.00 (0.00)	48	2.28 (5.33)	82	5.47 (0.00)				
15	0.20 (0.20)	49	5.46 (5.43)	83	0.00 (5.36)				
16	0.40 (0.40)	50	0.01 (0.00)	84	0.58 (5.43)				
17	0.54 (0.55)	51	5.45 (0.00)	85	5.47 (5.43)				
18	0.25 (0.24)	52	0.01 (1.86)	86	5.41 (5.37)				
19	0.45 (0.20)	53	0.02 (5.43)	87	5.40 (5.38)				
20	0.08 (0.20)	54	0.01 (5.45)	88	0.00 (0.00)				
21	5.45 (5.46)	55	0.00 (0.00)	89	0.00 (0.00)				
22	5.44 (5.16)	56	5.46 (0.00)	90	0.00 (0.00)				
23	4.44 (0.00)	57	0.00 (5.46)	91	5.47 (3.53)				
24	5.35 (5.34)	58	0.00 (0.00)	92	0.00 (0.00)				
25	1.63 (1.20)	59	0.00 (0.00)	93	0.00 (0.00)				
26	5.44 (5.43)	60	0.00 (0.00)	94	5.38 (5.37)				
27	0.05 (0.26)	61	0.00 (5.44)	95	1.16 (0.42)				
28	0.40 (0.30)	62	0.00 (5.44)	96	0.00 (0.00)				
29	5.17 (0.00)	63	5.47 (5.45)	97	0.00 (0.10)				
30	5.30 (5.30)	64	1.00 (1.00)	98	2.65 (0.22)				
31	5.31 (5.30)	65	0.00 (0.00)	99	0.00 (0.00)				
32	2.68 (2.68)	66	0.00 (0.00)	100	0.00 (0.00)				
33	1.32 (0.55)	67	0.00 (0.00)						
34	2.28 (3.86)	68	0.00 (0.00)						

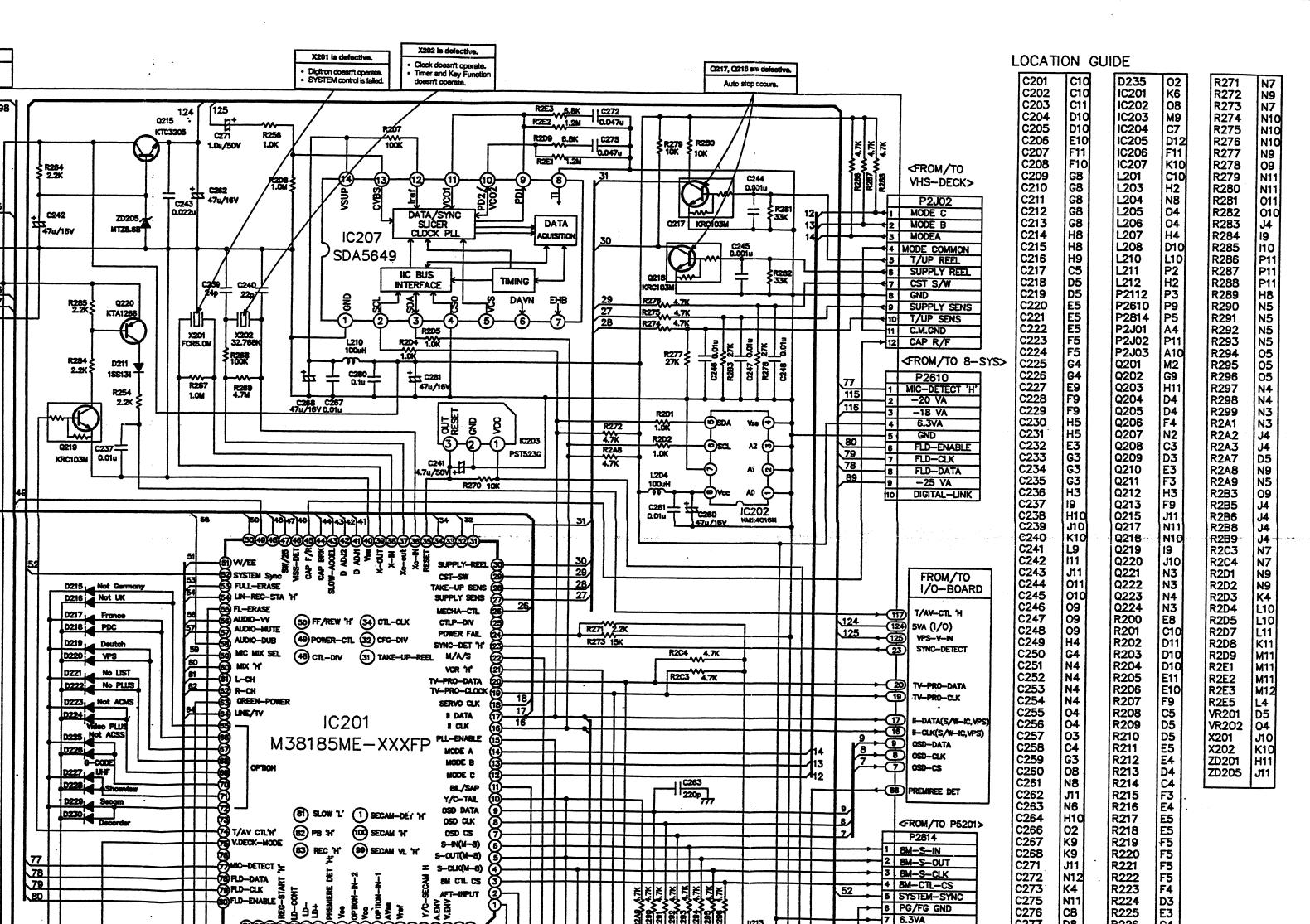
• VHS System TR Voltage Sheet

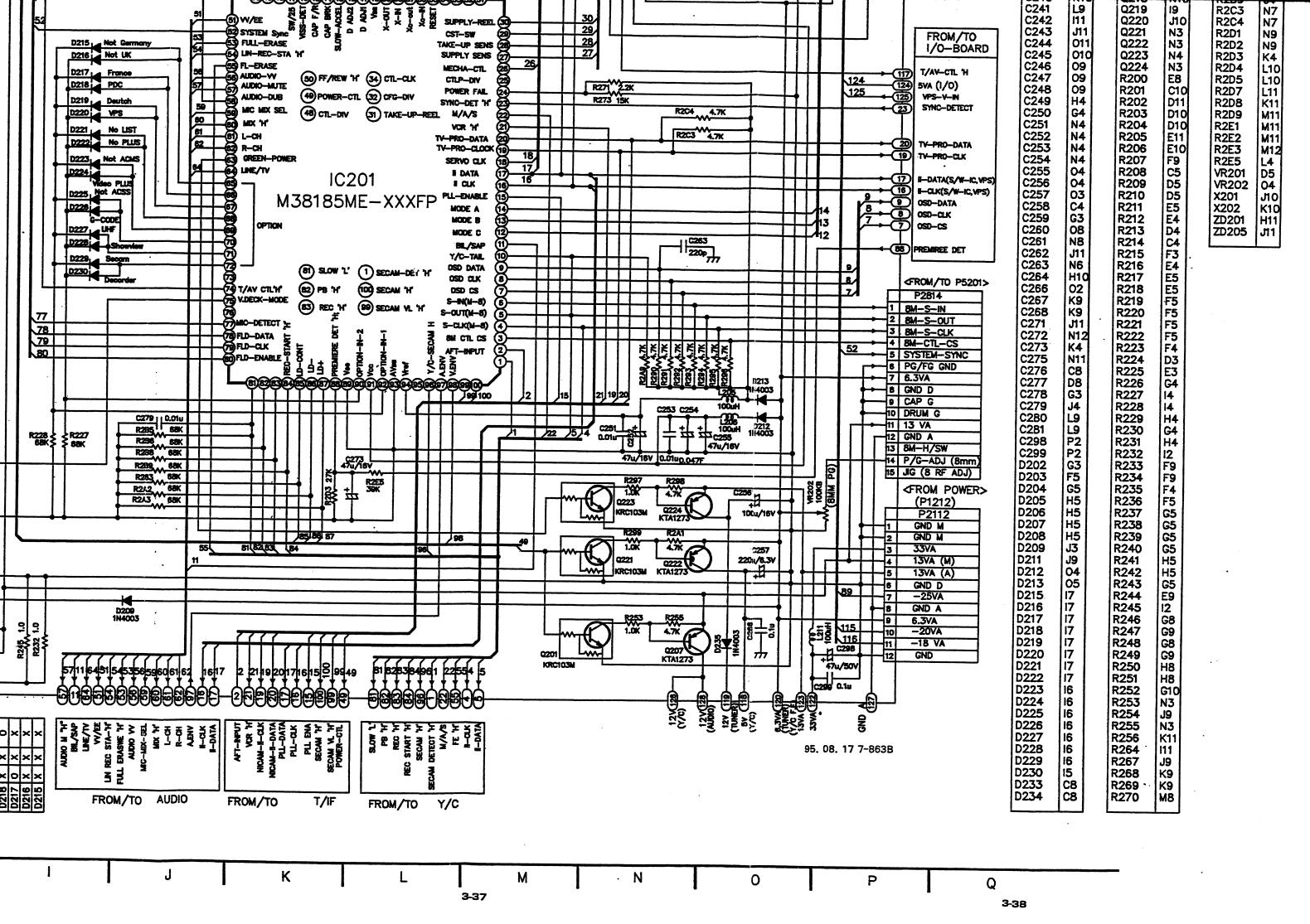
(PB/REC mode)

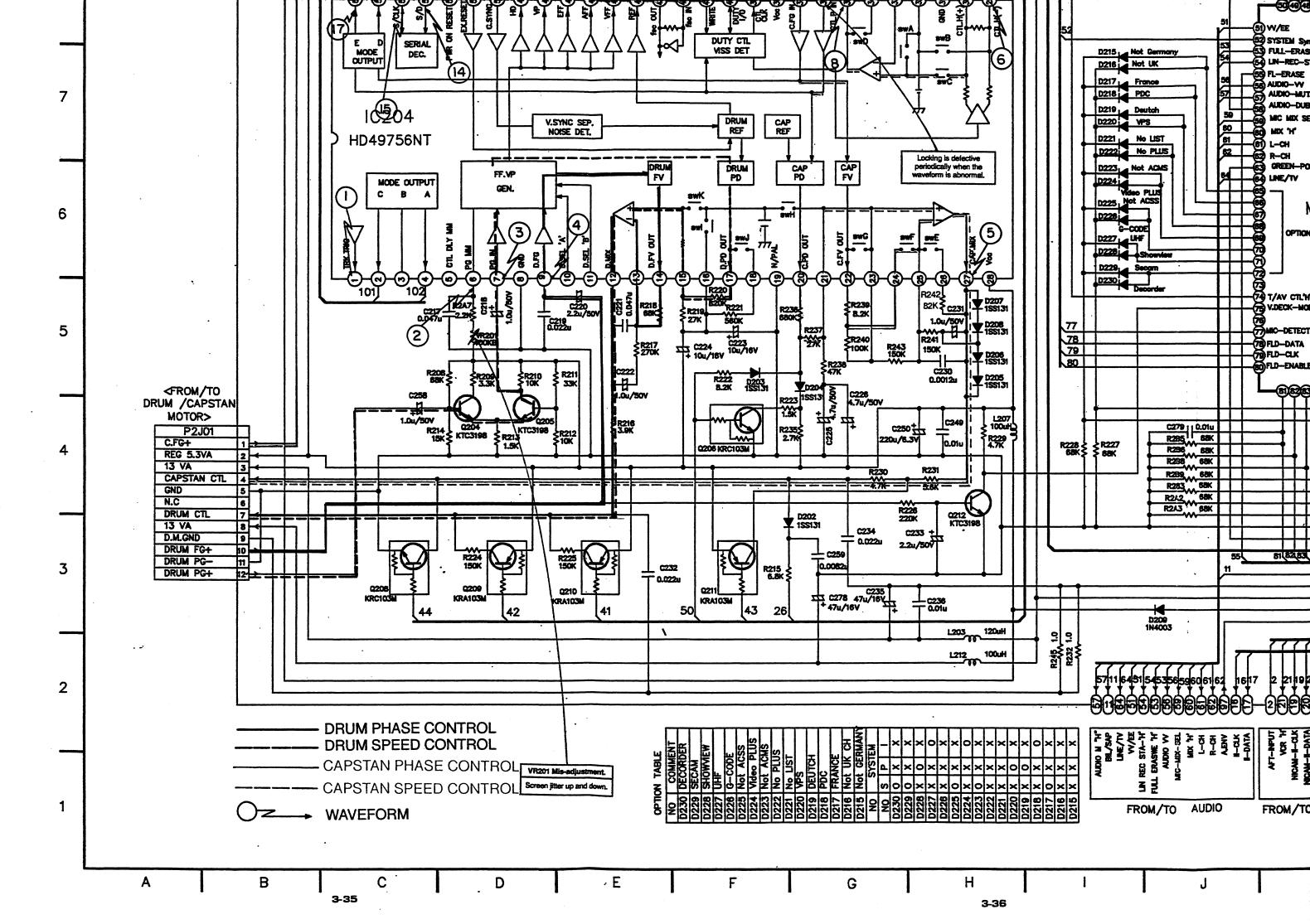
			(* = = 0 000)
Port TR No.	Emitter	Collector	Base
Q202	0.00/0.00	1.33/0.00	0.00/0.00
Q203	0.00/0.00	0.00/0.00	5.40/5.34
Q204	0.64/0.64	5.28/5.23	0.98/0.96
Q205	0.65/0.65	1.32/1.33	0.00/1.23
Q206	0.00/0.00	5.29/5.28	0.00/0.00
Q208	0.00/0.00	2.71/2.69	0.00/0.00
Q209	5.32/5.28	1.13/1.15	5.41/5.37
Q210	5.29/5.28	1.15/1.15	5.41/5.37
Q211	5.12/5.10	2.72/2.70	5.40/5.37
Q212	0.00/0.00	0.12/0.12	0.64/0.64
Q213	0.92/0.95	3.60/3.59	1.47/1.46
Q217	0.00/0.00	5.19/5.20	4.83/4.80
Q218	0.00/0.00	0.00/4.77	4.80/4.77
Q221	0.00/0.00	0.00/0.00	5.40/5.40
Q222	6.13/6.12	5.92/5.90	0.00/5.34
Q223	0.00/0.00	0.10/0.10	5.39/5.37
Q224	13.34/13.33	13.25/13.23	8.51/0.00
Q225	0.92/0.95	3.60/3.59	1.47/1.46

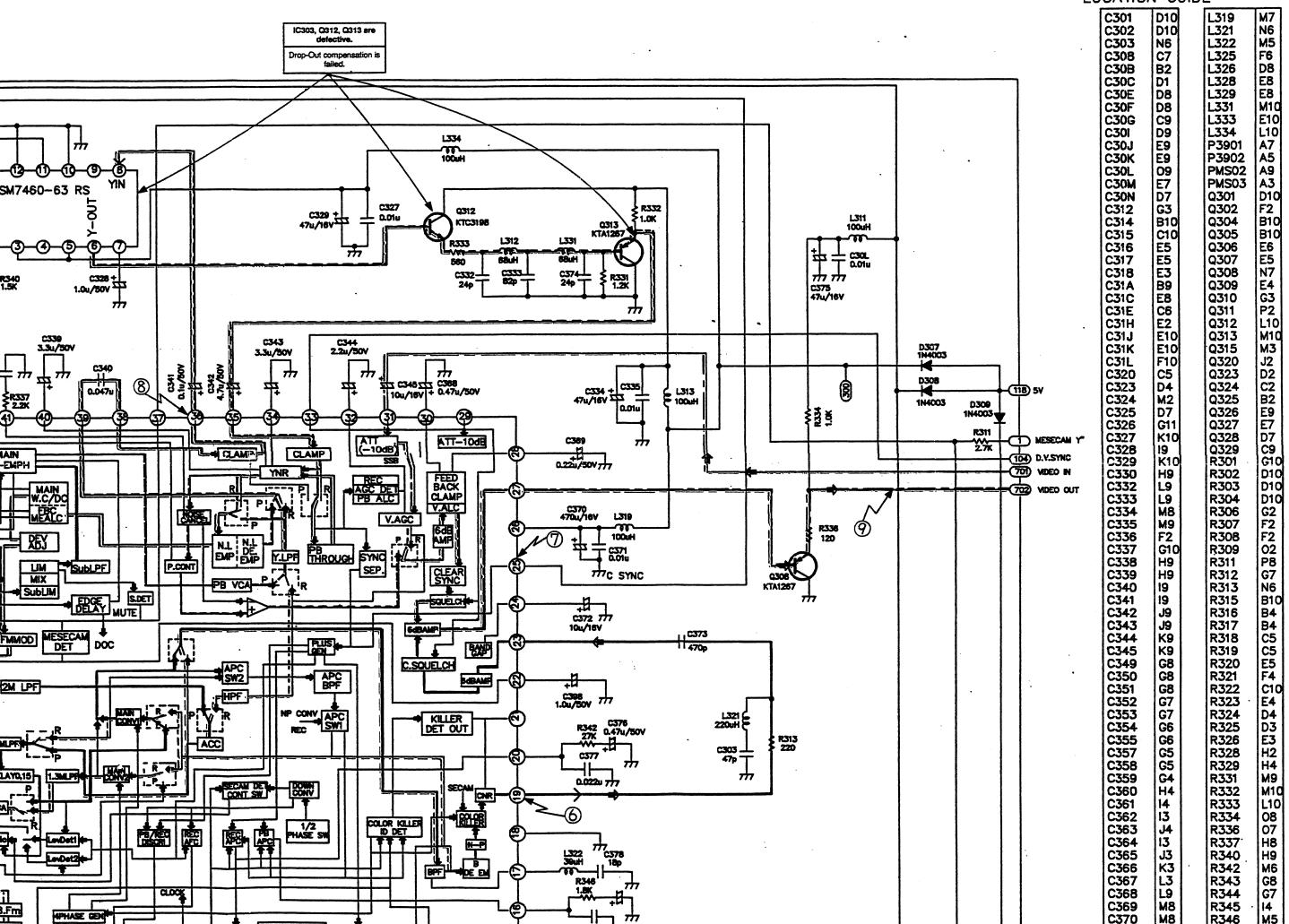
_	,					, ,																			F	B (R	(EC
(5)	2.5 (2.5)		1,1 (1,1)	3.8 (3.8)	5 (5)	0.2 (0.9)	0 (0)	0 (0)					2.6 (2.6)			5 (5)	2 (3.6)	5 (5)		2.5 (2.5)		2.5 (2.5)		2.5		2.5	
	55					50			45					,	40			,,,,	(5) (2.4) (2.5) (2.5) (2.5) (2.5					30			
IC204 (HD49756NT)																											
1		5 10					15 20 2							25	25												
3.6 (3.6)	0 (0)	0 (0)	5 (5)	0 (0)	0.2 (0.2)	2.1 (2.1)	0	2.7 (2.7)		2.7 (2.7)							2.4		2.5 (2.5)	2.5	2.5	2.5	2.5	2.5	2.7	2.7	5

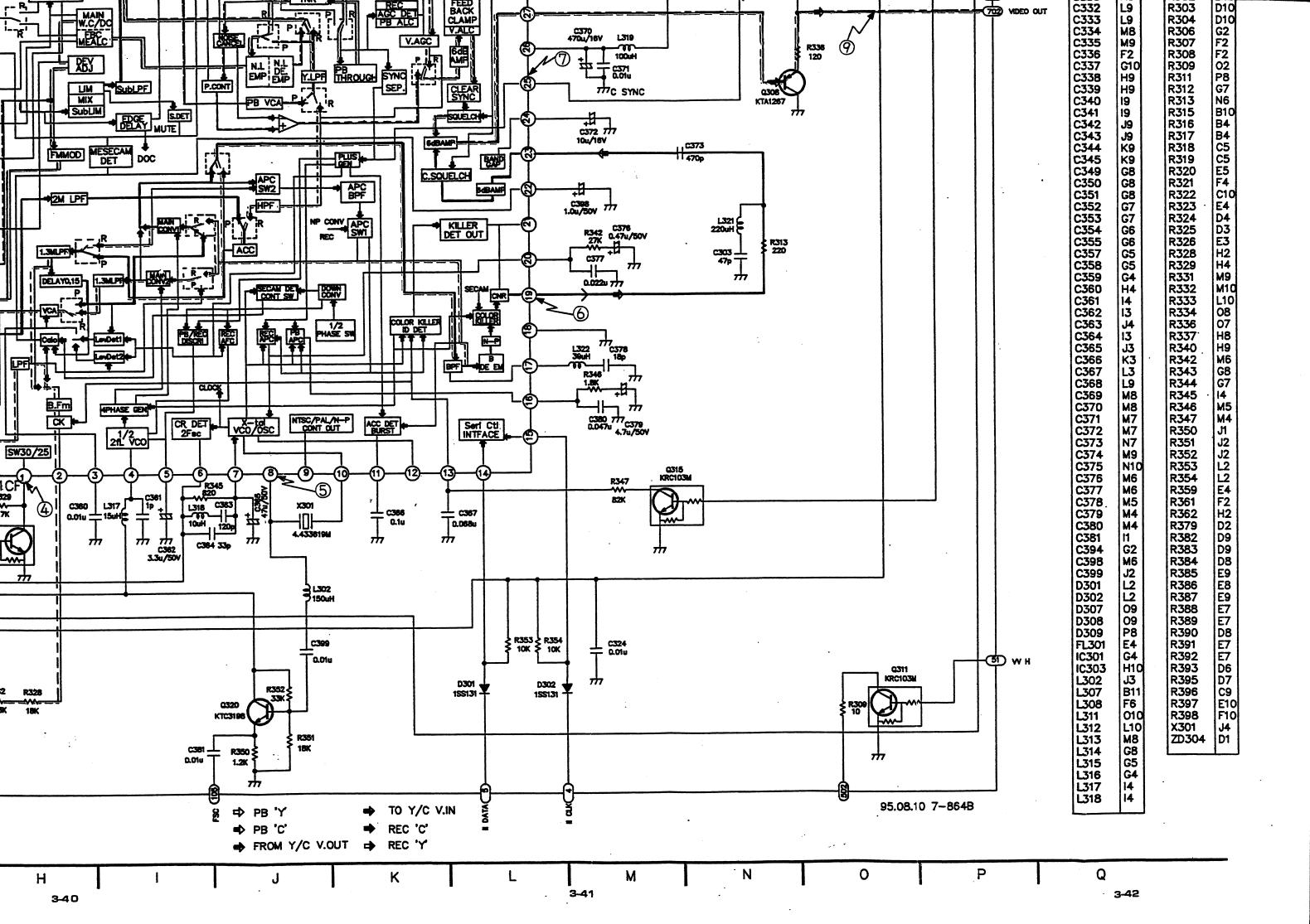


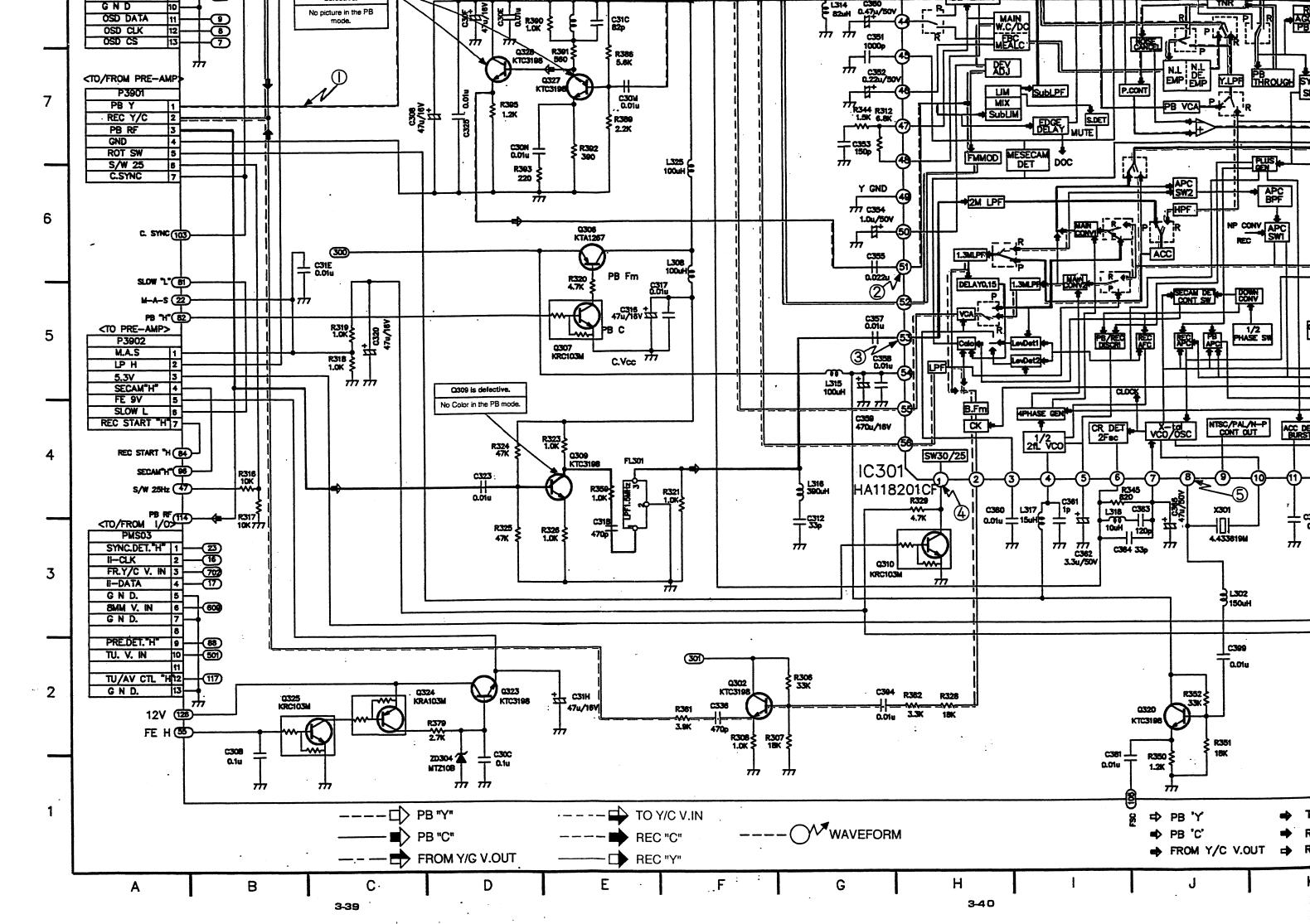




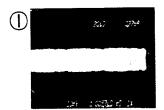








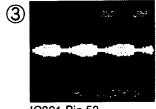
* VHS Y/C Waveform



P3901 Pin 1 (10mV/20µsec)



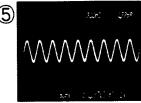
IC301 Pin 51 (50mV/5msec)



IC301 Pin 53 (5mV/20µsec)



IC301 Pin 1 (200mV/5msec)



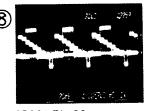
IC301 Pin 8 (50mV/200nsec)



IC301 Pin 19 (20mV/20µsec)



IC301 Pin 25 (100mV/20µsec)



IC301 Pin 36 (20mV/20µsec)



Video Out Terminal (100mV/20µsec)

• VHS Y/C TR Voltage Sheet

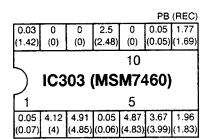
(PB/REC mode)

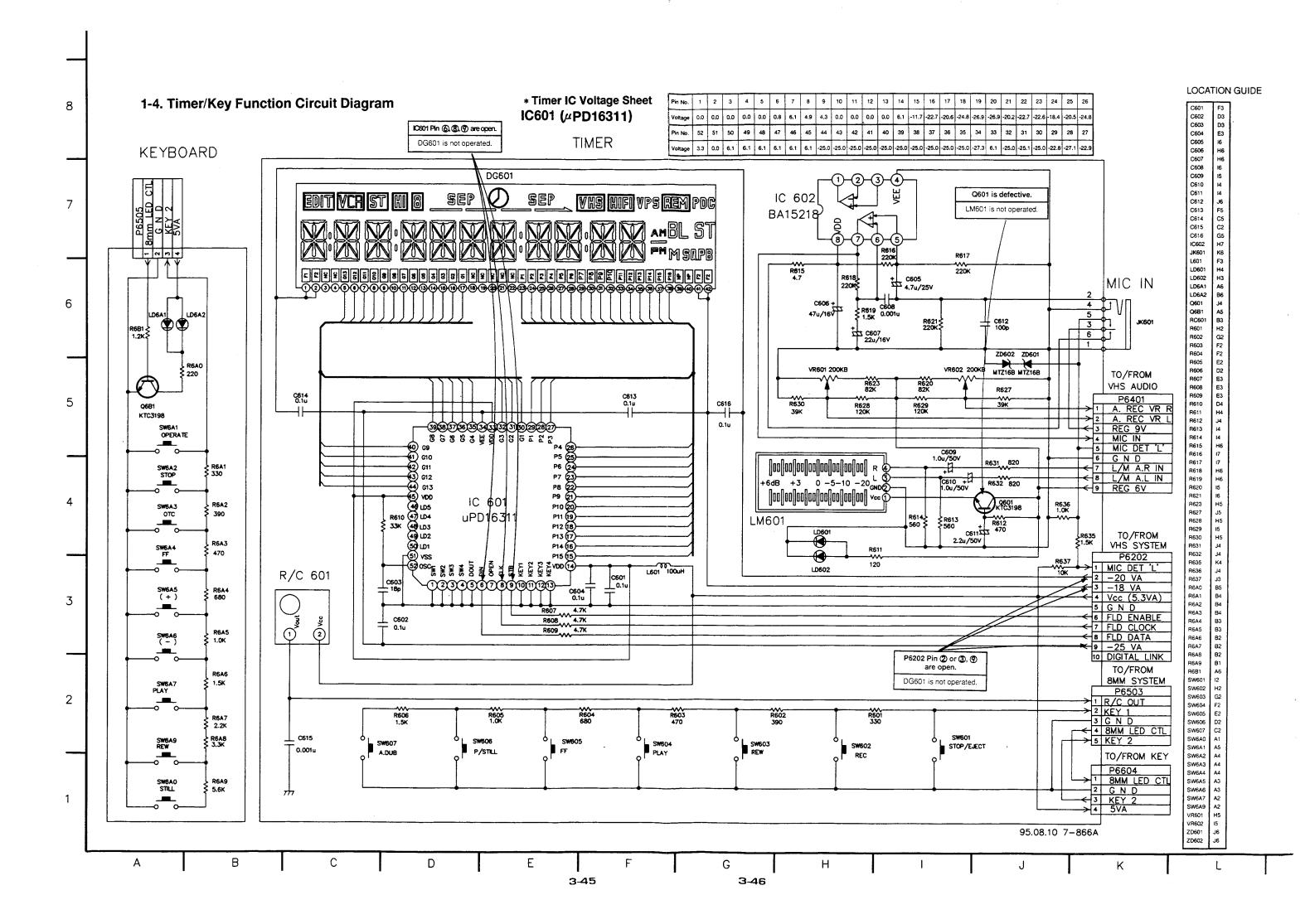
Port TR No.	Emitter	Collector	Base
Q301	0/1.09	0/4.9	0/1.66
Q308	2.97/2.21	0/0	0.02/0.1
Q312	0.04/3.4	4.89/0.04	3.66/0.05
Q313	1.51/1.7	0/0	2.14/2.28
Q326	3.15/0	1.76/0	2.49/0
Q327	1.34/0	2.57/0	0.74/0
Q328	1.97/0	4.9/0	2.58/0

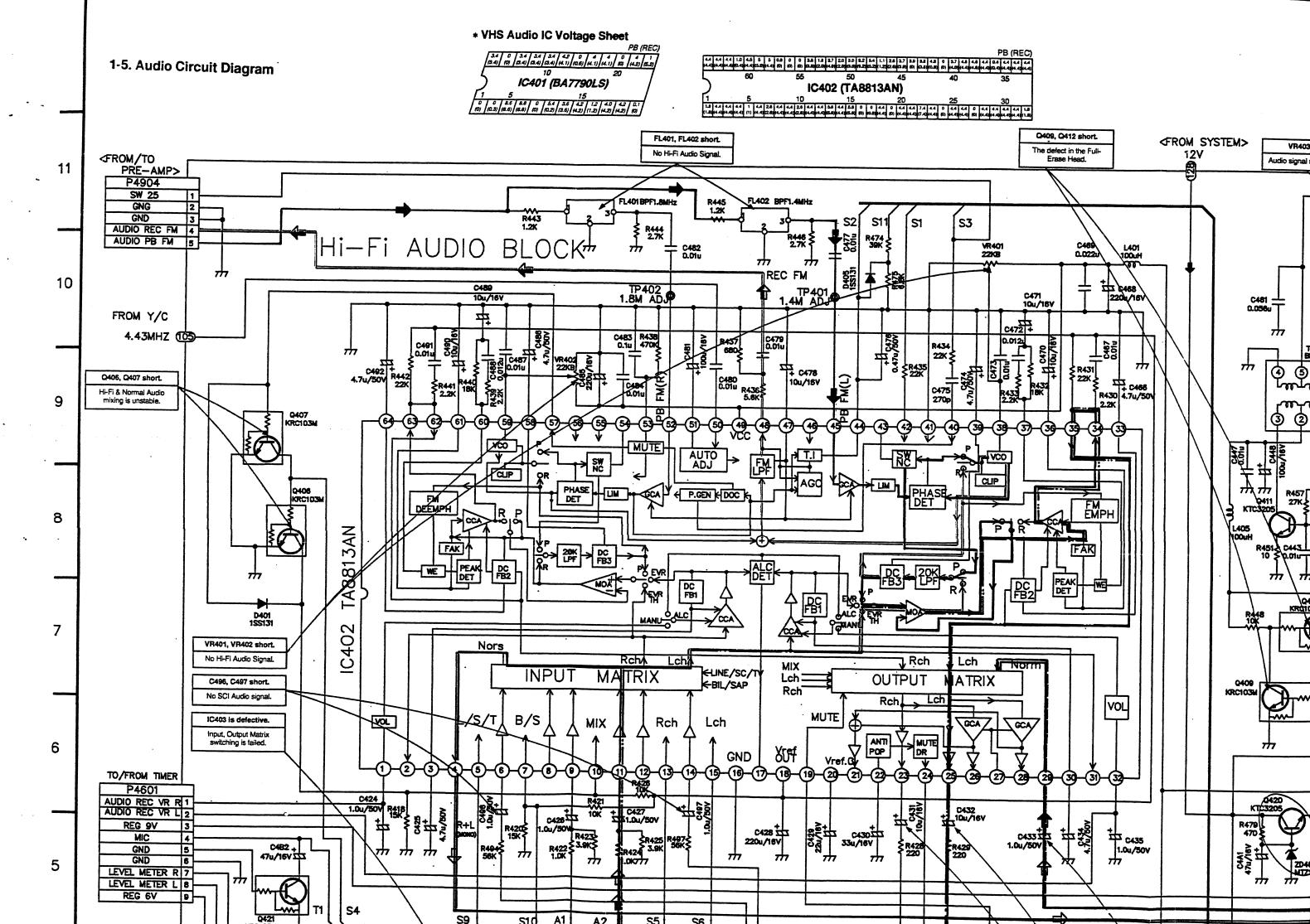
* VHS Y/C IC Voltage Sheet

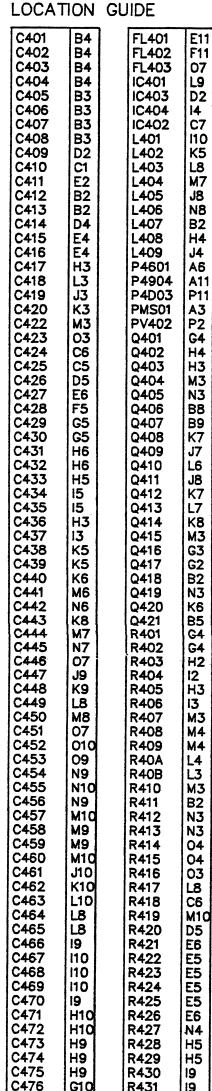
PB (REC)

	0.32 (0.05)	0.27 (0.05)	1.62 (0.06)	0.28 2.27)	0.1 (2.88)		2.43 (2.21)	3.08 (0)	1.42 (1.46)	0.06 (0)	1.70 (2.23)	3.01 (3.02)		3.03 (3.05)	
0 (1.9)			40					35					30		2.79 (2.28)
2.72 (2.77)															2.38 (1.62)
0.08	45														4.7 (4.67)
1.88 (1.93)														25	0.39 (0.39)
1.43 (2.04)										-					0.02 (2.84)
1.44 (0.04)															1.94 (1.95)
0.01					IC3	01 ((HA	118	201	CF)					4.62 (4.6)
0.01 (1.9)	50														0.13 (4.54)
2.79 (0.87)														20	0.25 (2.7)
4.23															2.14 (2.13)
0.08															0 (0.07)
0.08 (4.8)															2.86 (0.08)
4.82															2.80 (0.09)
4.06					5					10				15	4.73 (4.75)
/	2.44 (0.07)	0 (2.12)	3.57 (3.48)	4.86 (4.81)	2.79 (2.96)	2.82 (2.8)	2.83 (2.8)	2.17 (2.16)		3.20 (3.2)		2.216 (2.16)		4.73 (4.6)	

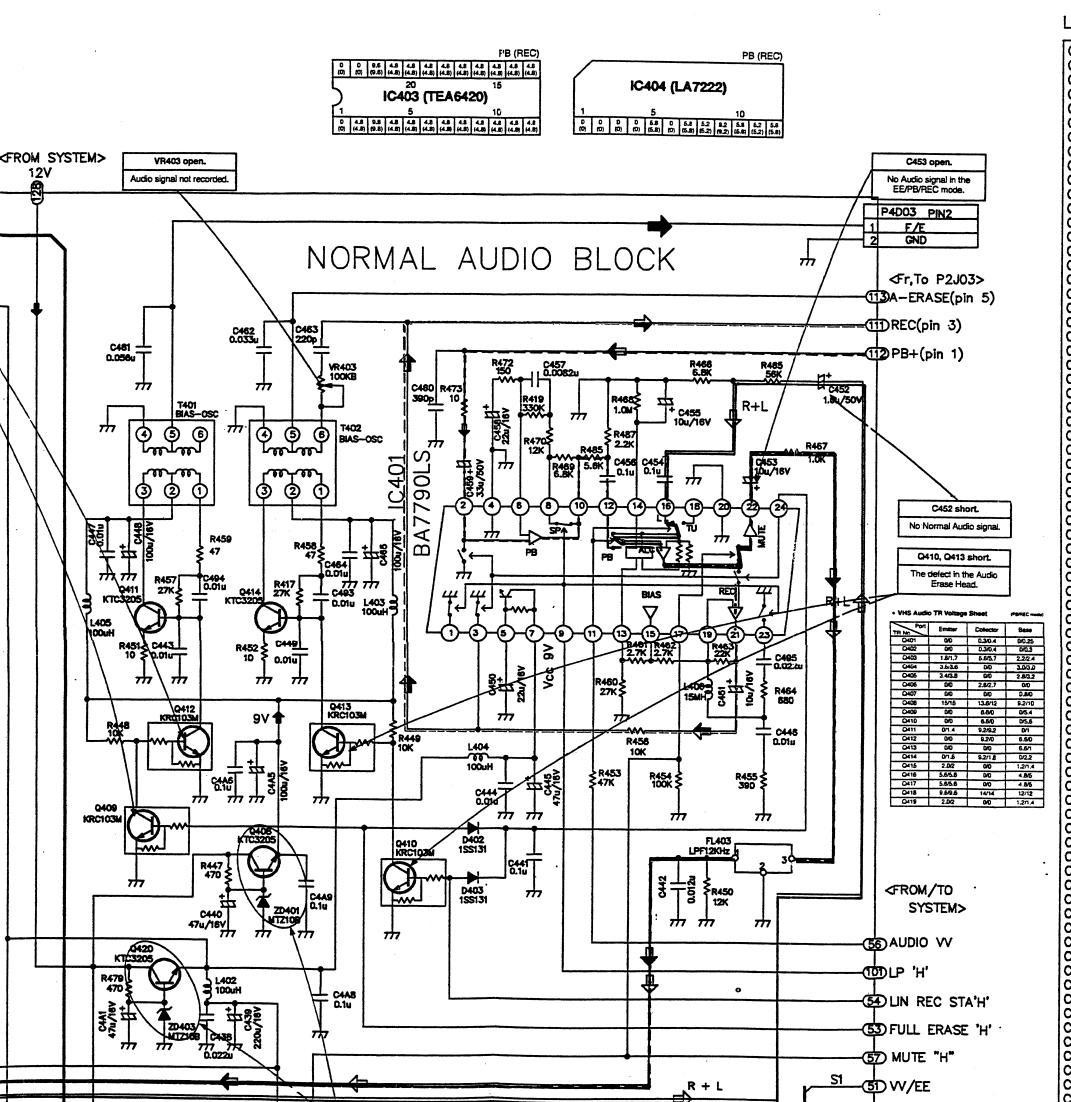


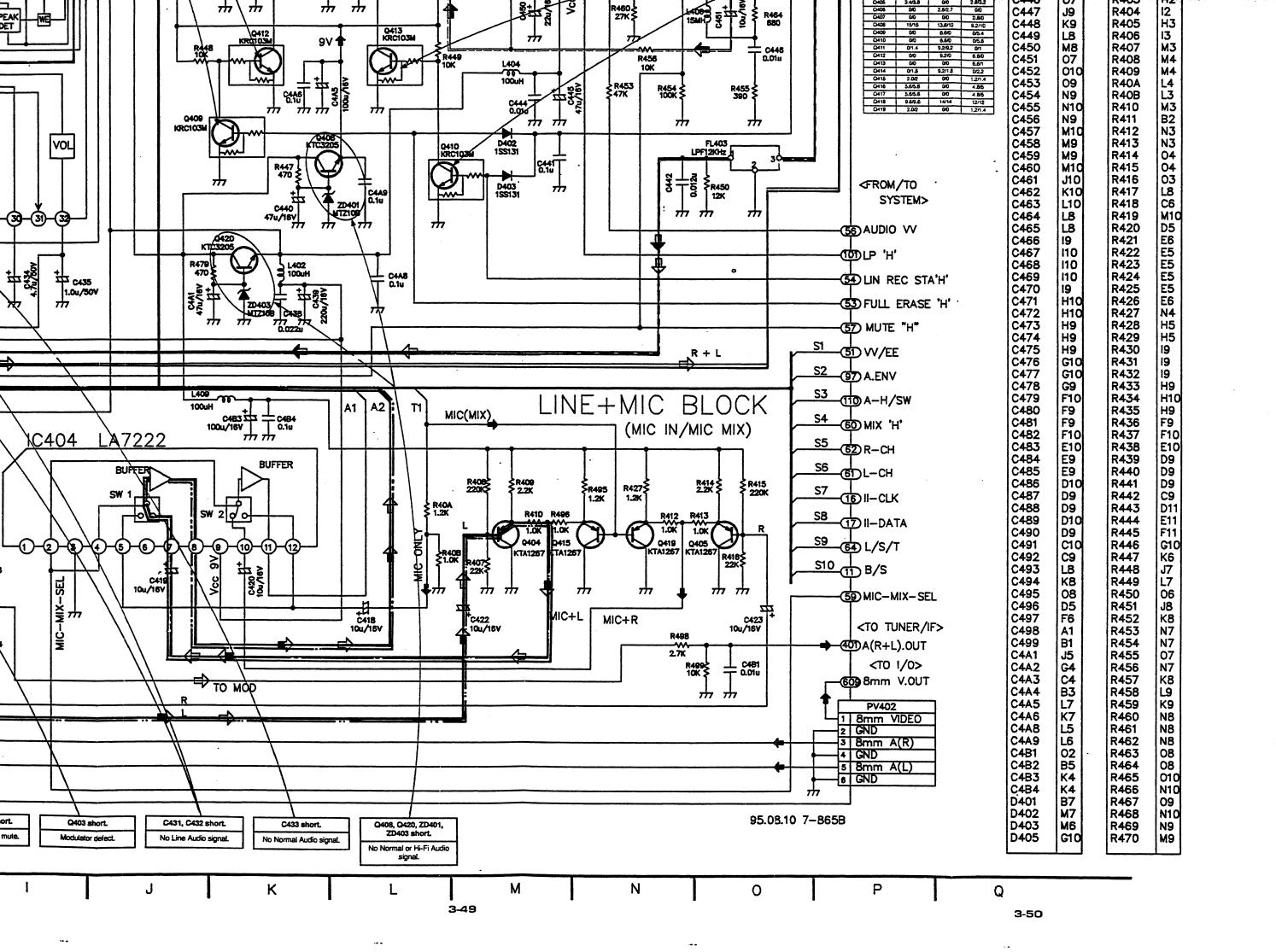


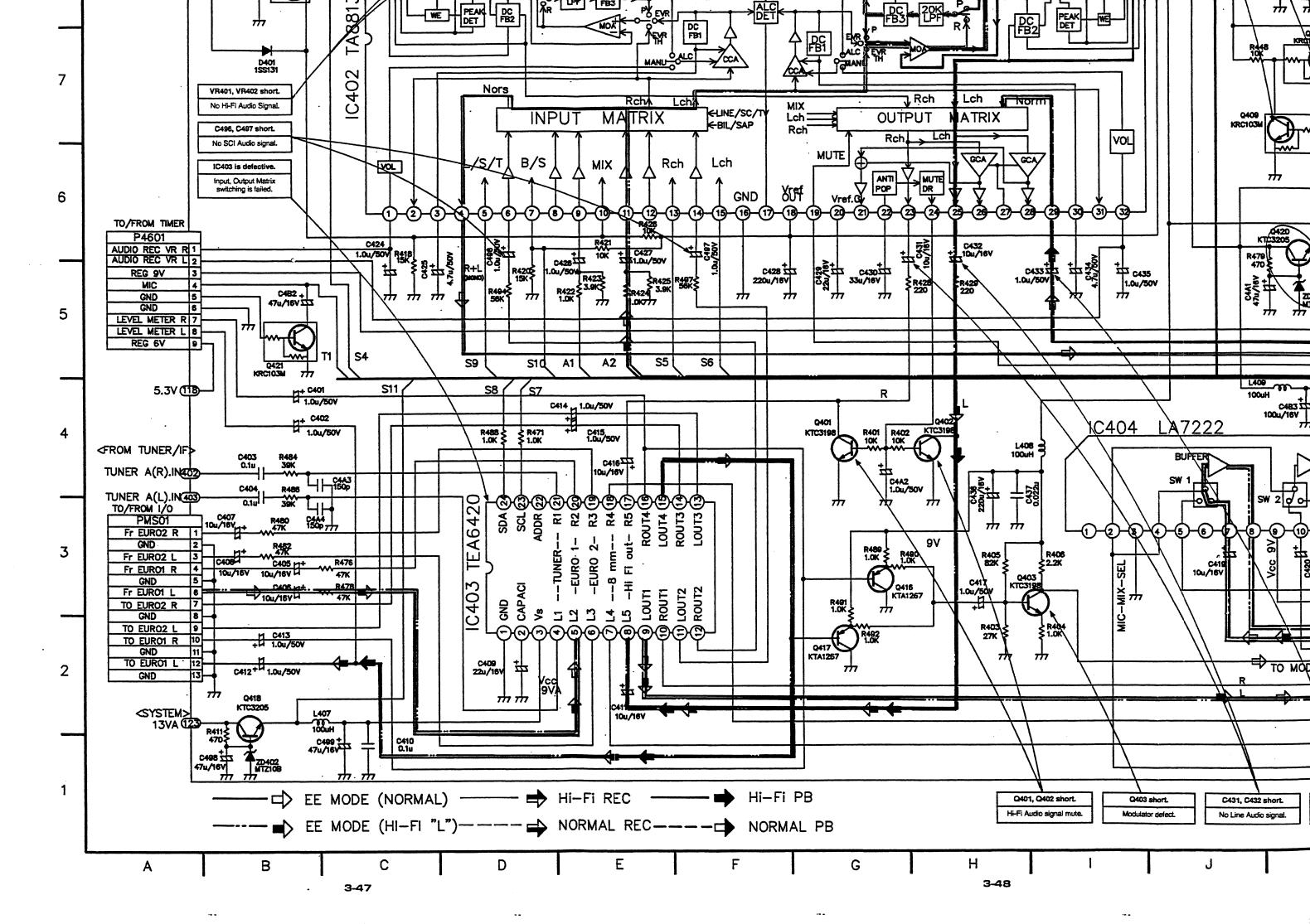


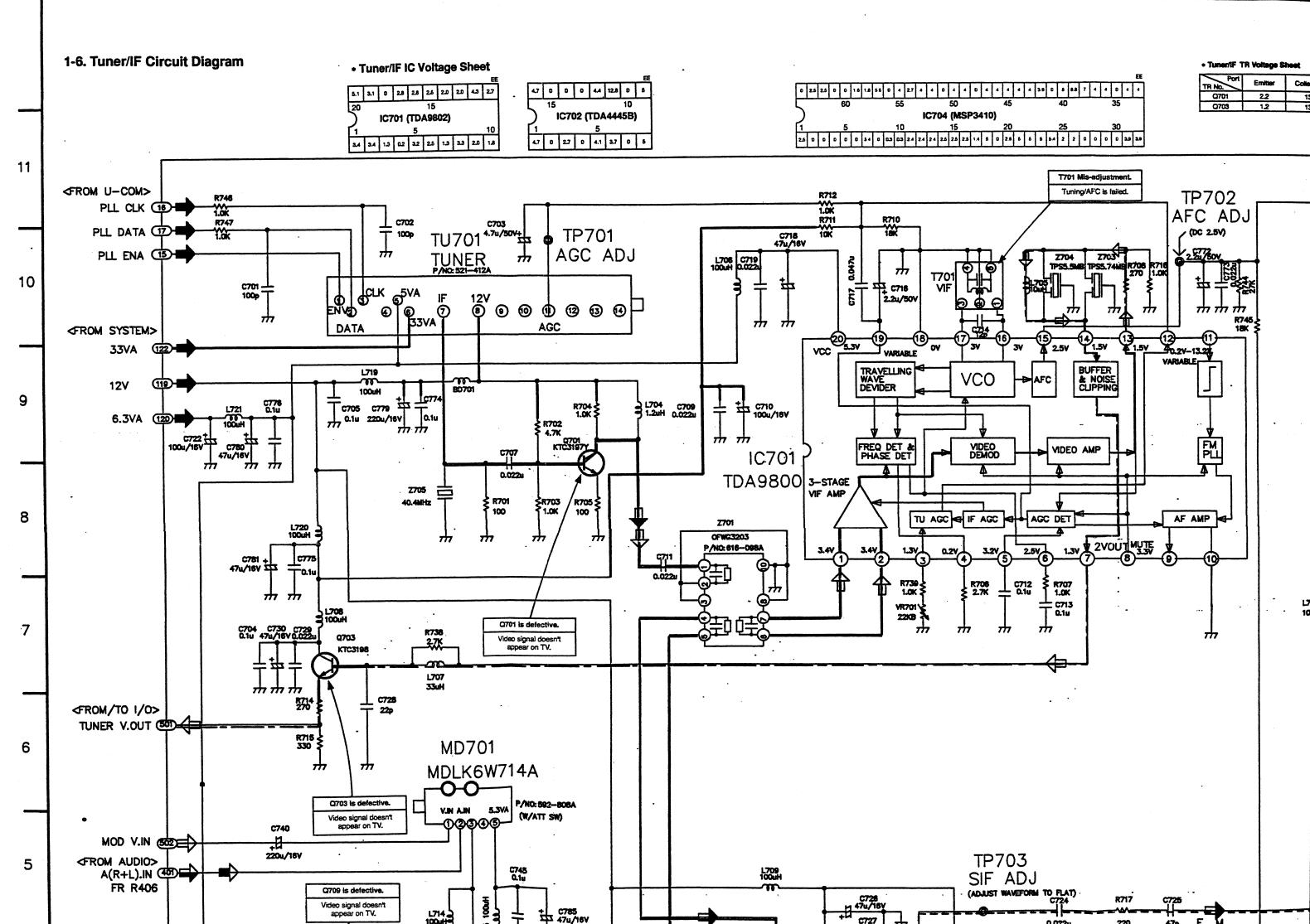


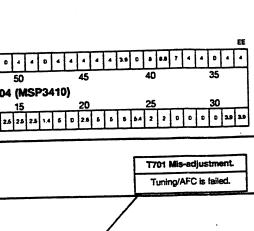
R471	D4
R472	M10
R473	M10
R474	G10
R475	G10
R476	C3
R478	C3
R479	J5
R480	B3
R482	B3
R484	B4
R485	N9
R486	B4
R487 R488 R489 R490	N9 D4 G3
R491 R492 R494	G3 G3 G2 D5
R495	N4
R496	M3
R497	F5
R498	N2
R499	N2
T401	K10
T402	L9
TP401	G10
TP402	E10
VR401	H10
VR402	E9
VR403	L10
ZD401	L6
ZD402	B1
ZD403	K5

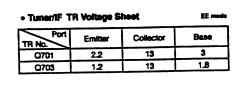


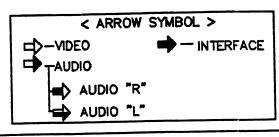












LOCATION GUIDE

BD701 C701 C702 C703 C704 C705 C707 C709 C710 C711 C712 C713 C714 C716 C717 C718 C719 C720 C721 C722

C724 C725 C726 C727 C728 C729 C730 C740 C741 C742 C743 C744 C745 C747 C750 C751 C752 C753 C754 C756 C757 C759 C760 C761 C762 C763 C764 C765 C766 C767 C768 C767 C768 C770 C772 C778 C778 C778 C778 C778 C768 C769 C770 C779 C778 C779 C778 C779 C778

C781

C782 C784 C785 D703

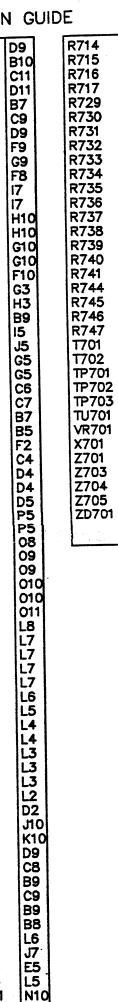
FL701

FL702

IC701

N10

G8



C6 J10 J5 C4 C4 O10 N9

M10

011

N10 M11 D3 D7

H7

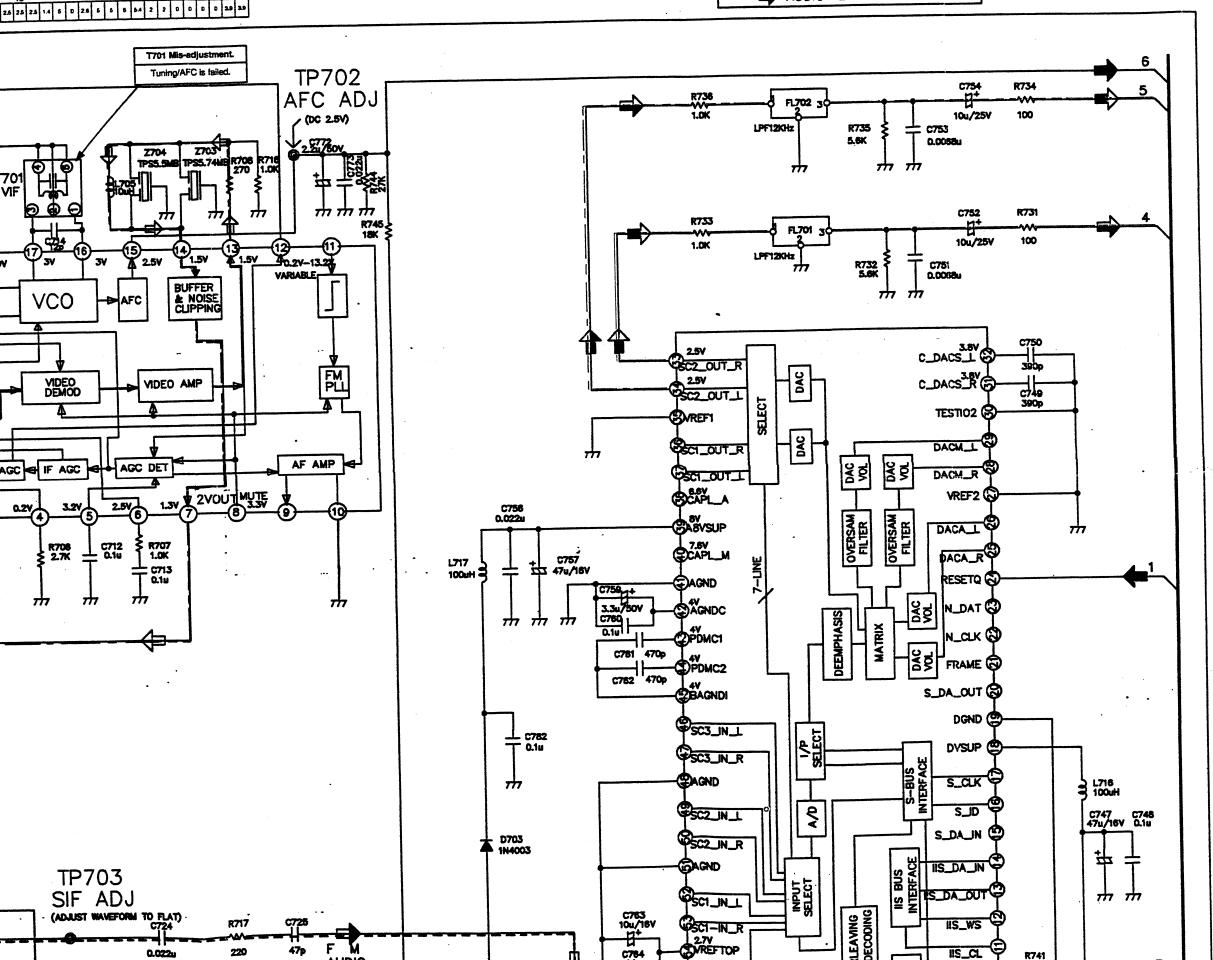
04 04 K10 K10 B11

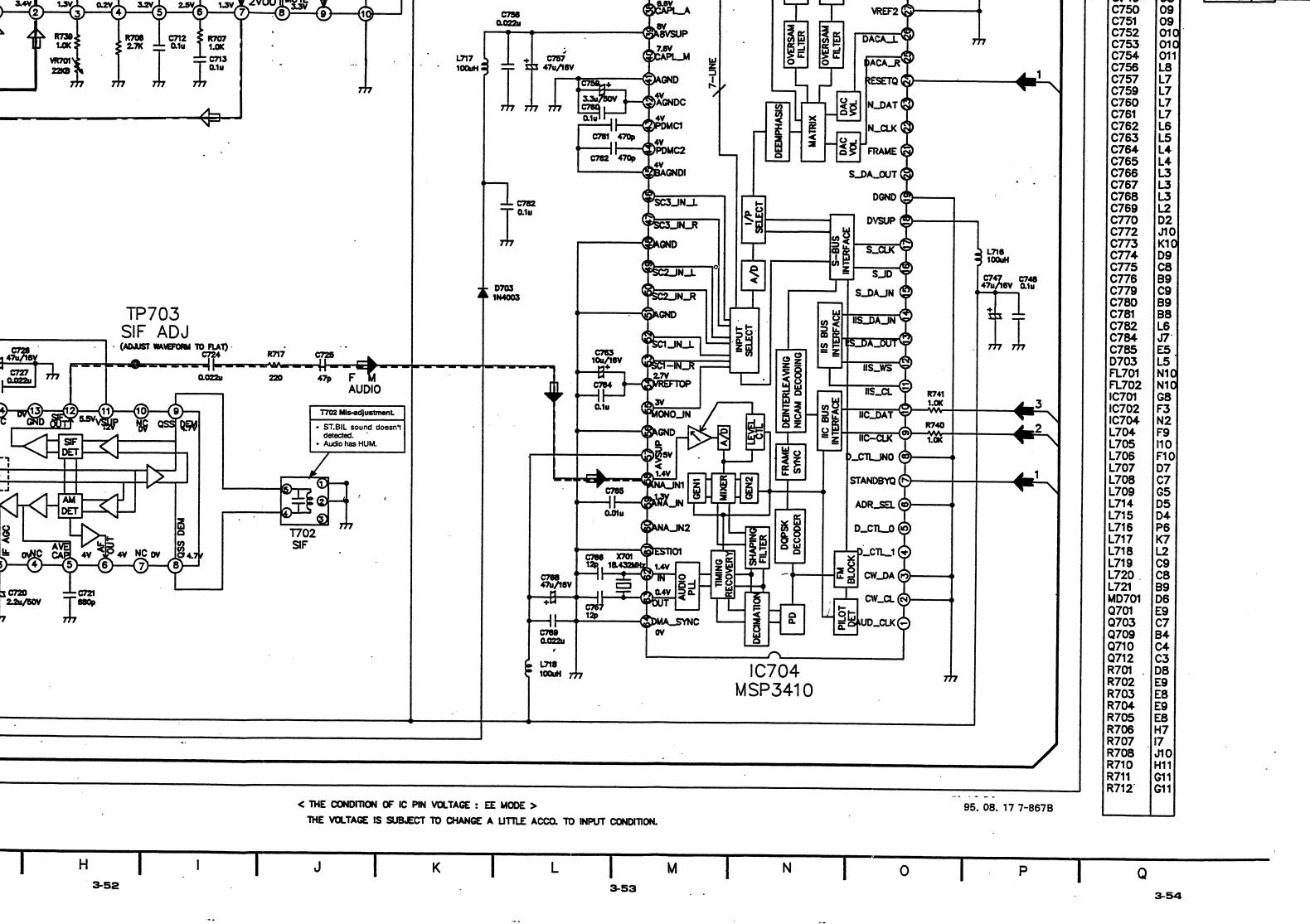
B11

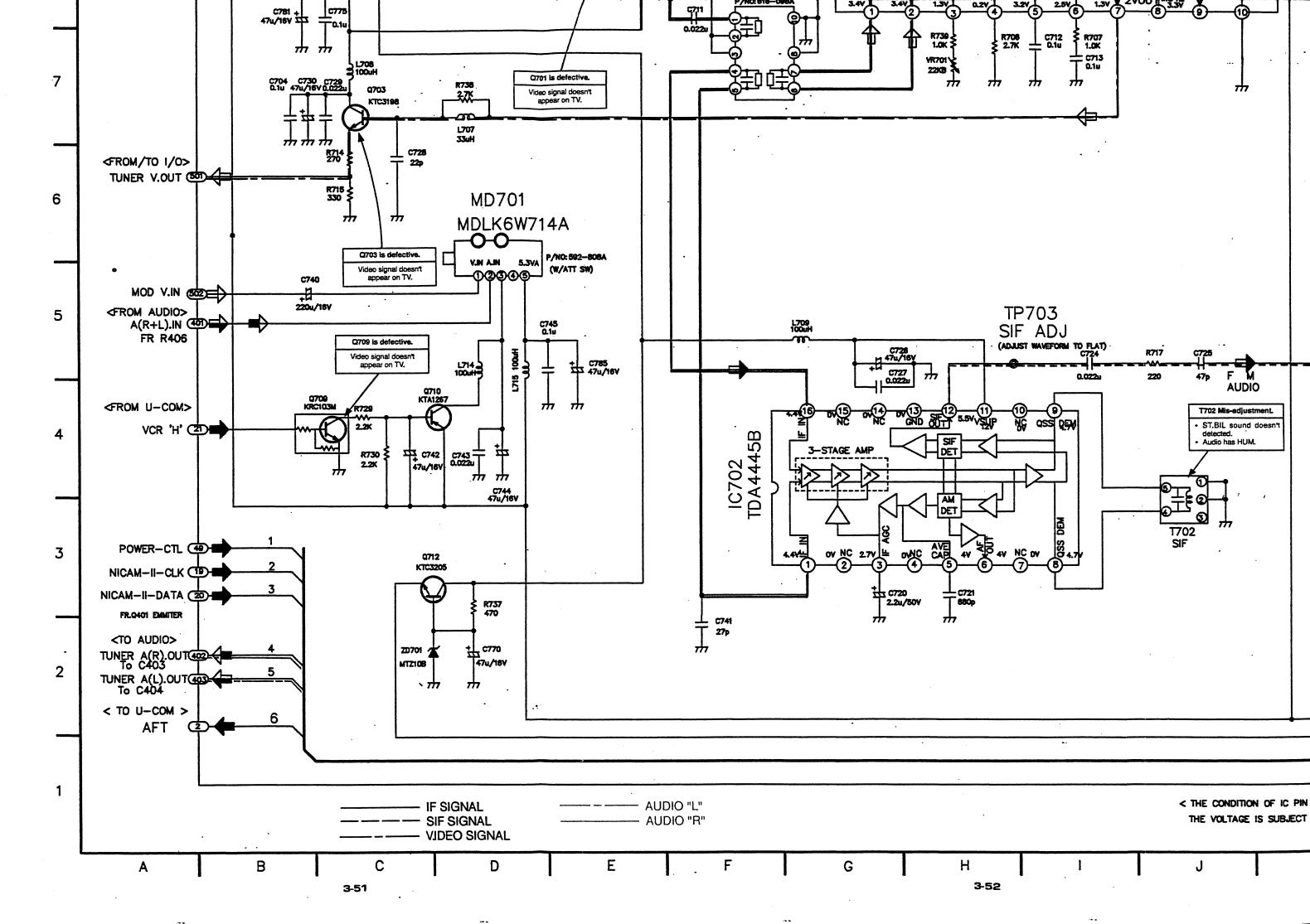
H10 J3 E10 J11

H5 D10 H7 M3 F8 I10

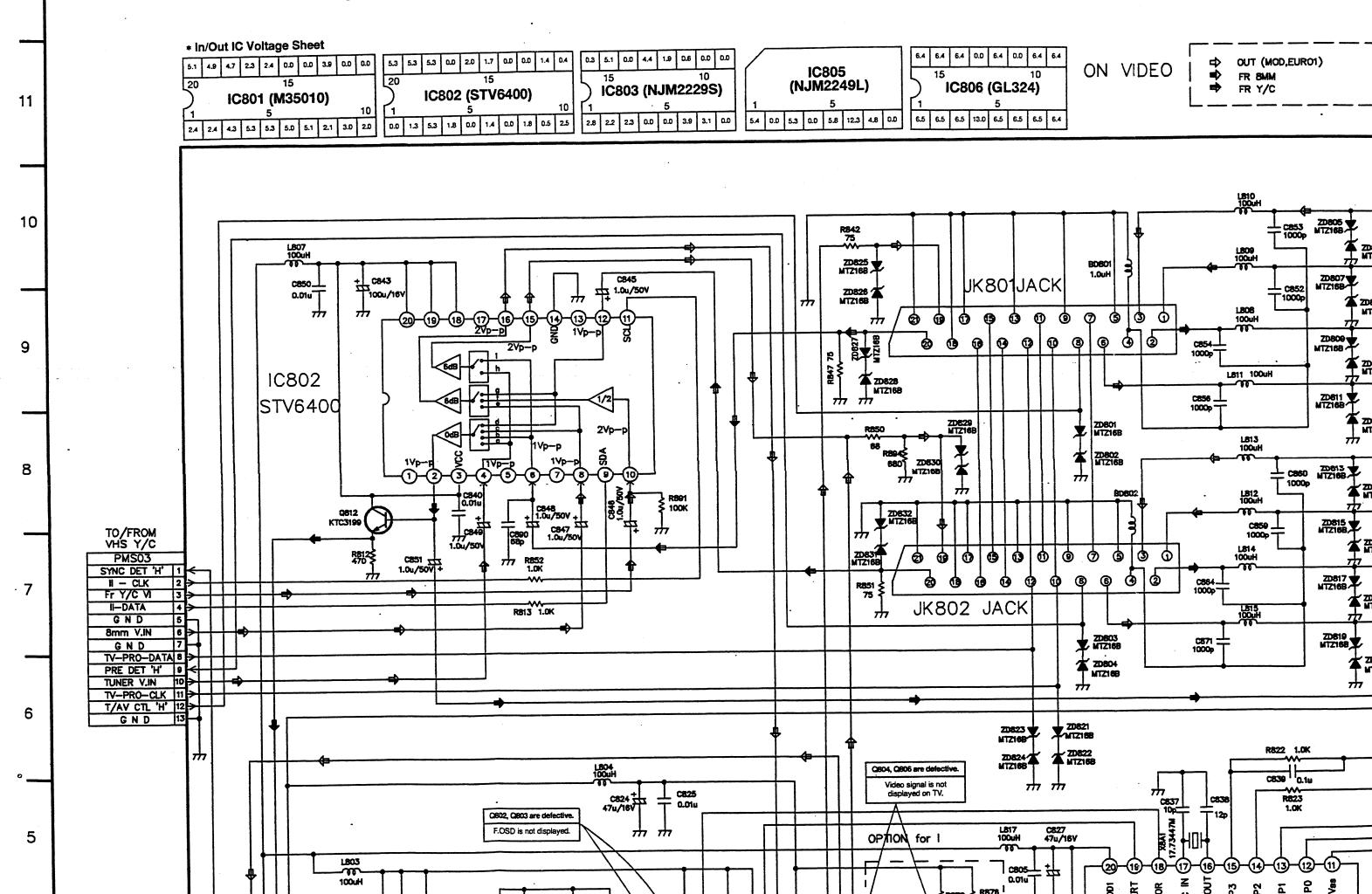
110 D8 C2

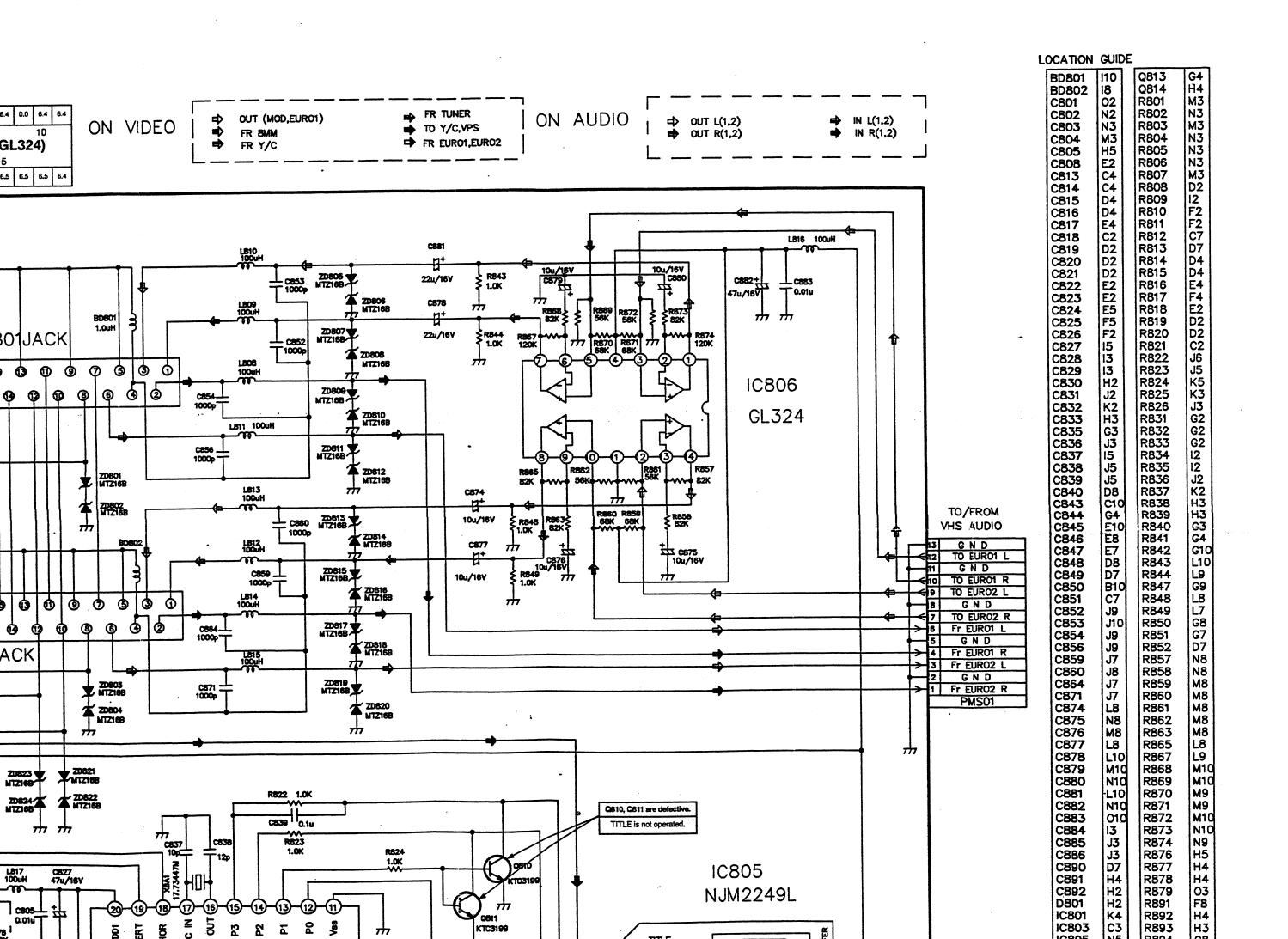


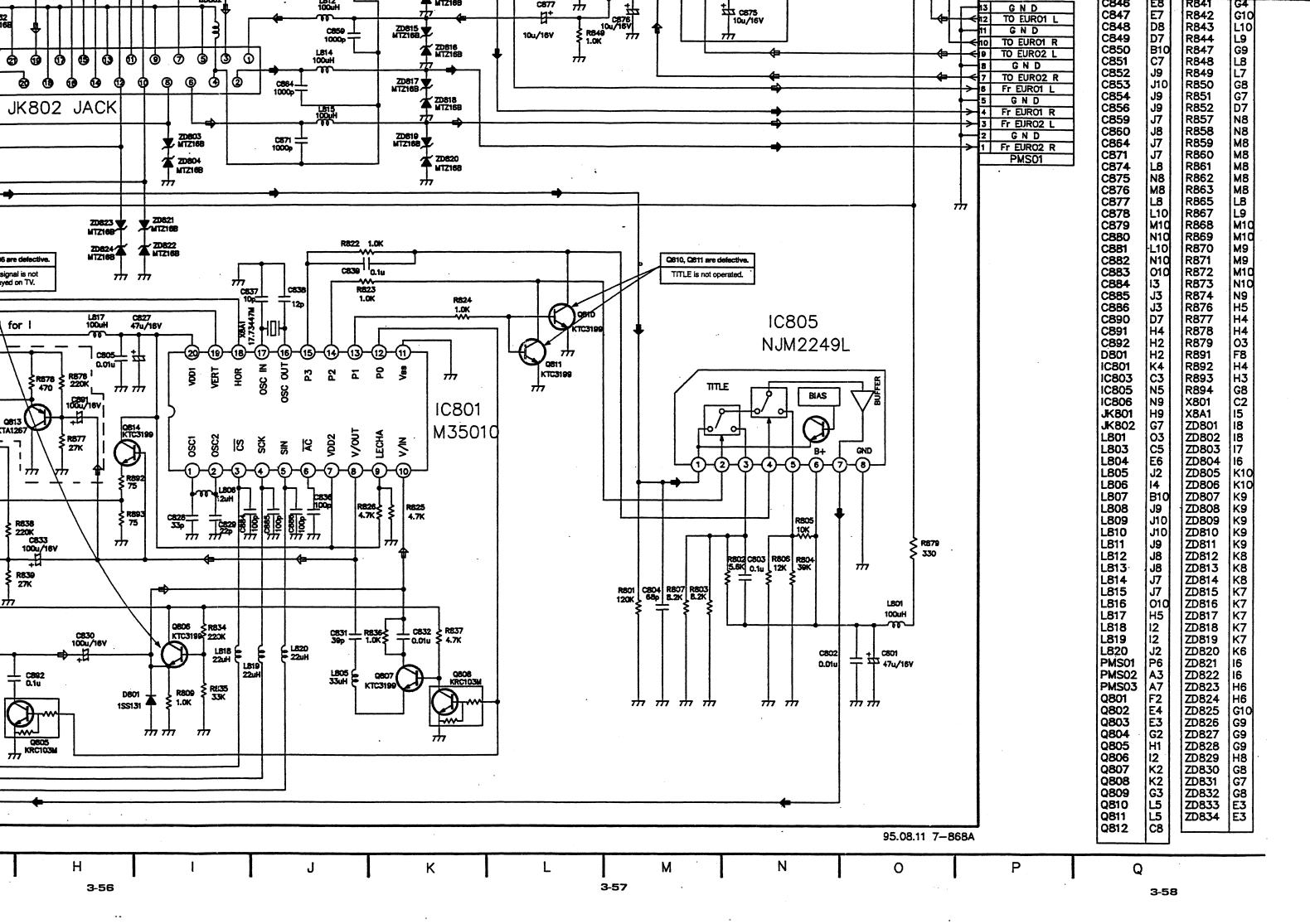


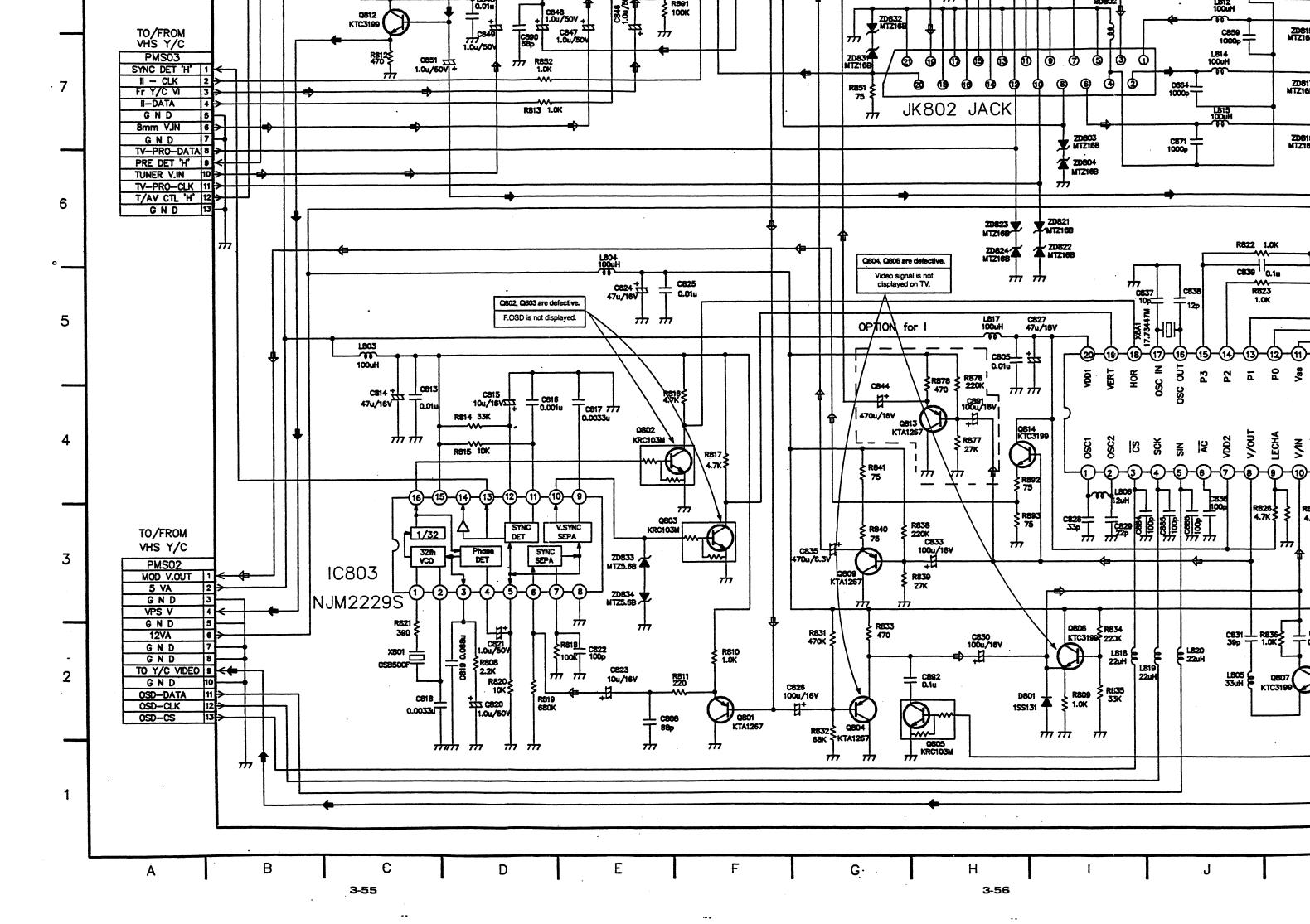


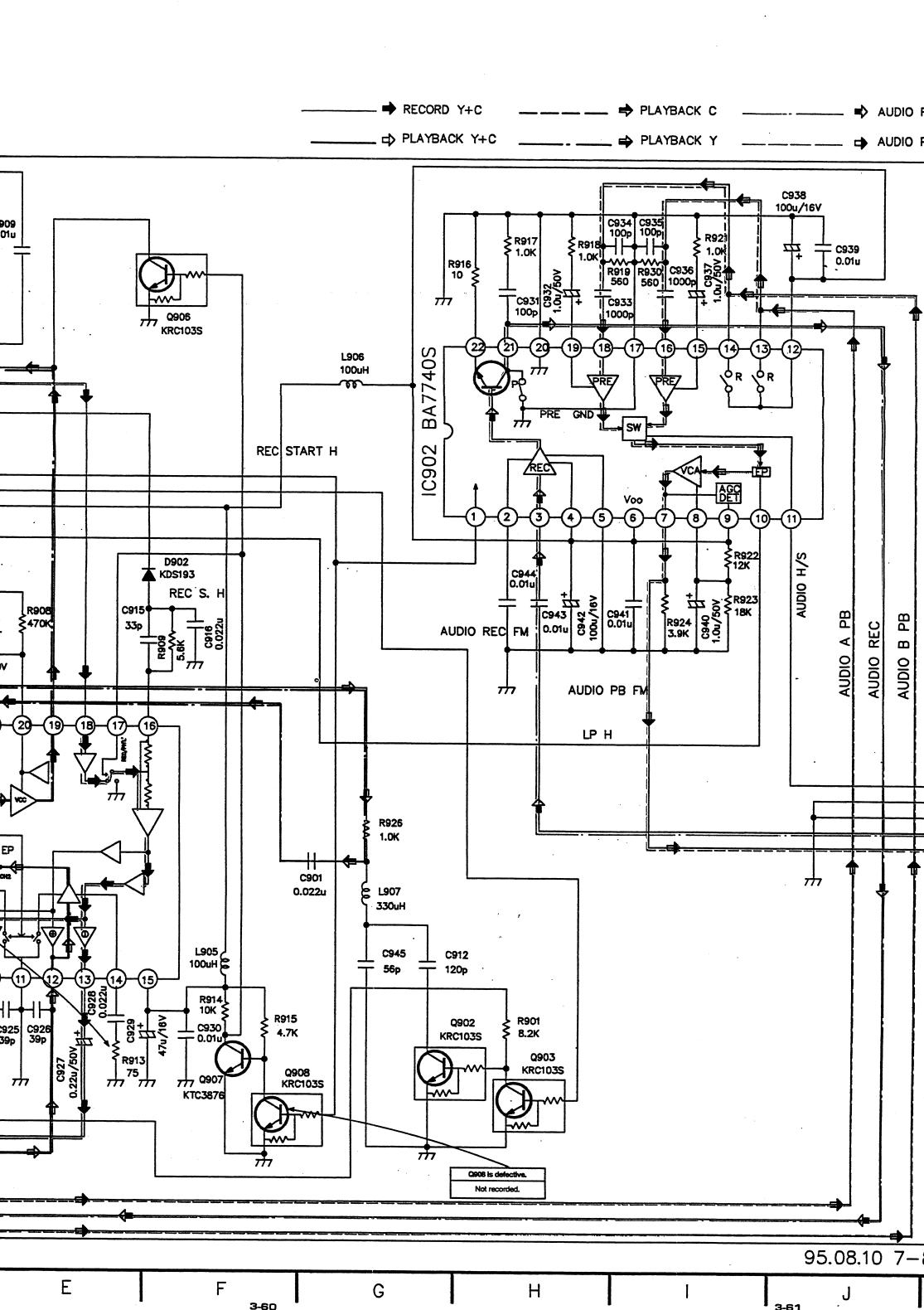
1-7. Scart In/Out & Function OSD Circuit Diagram

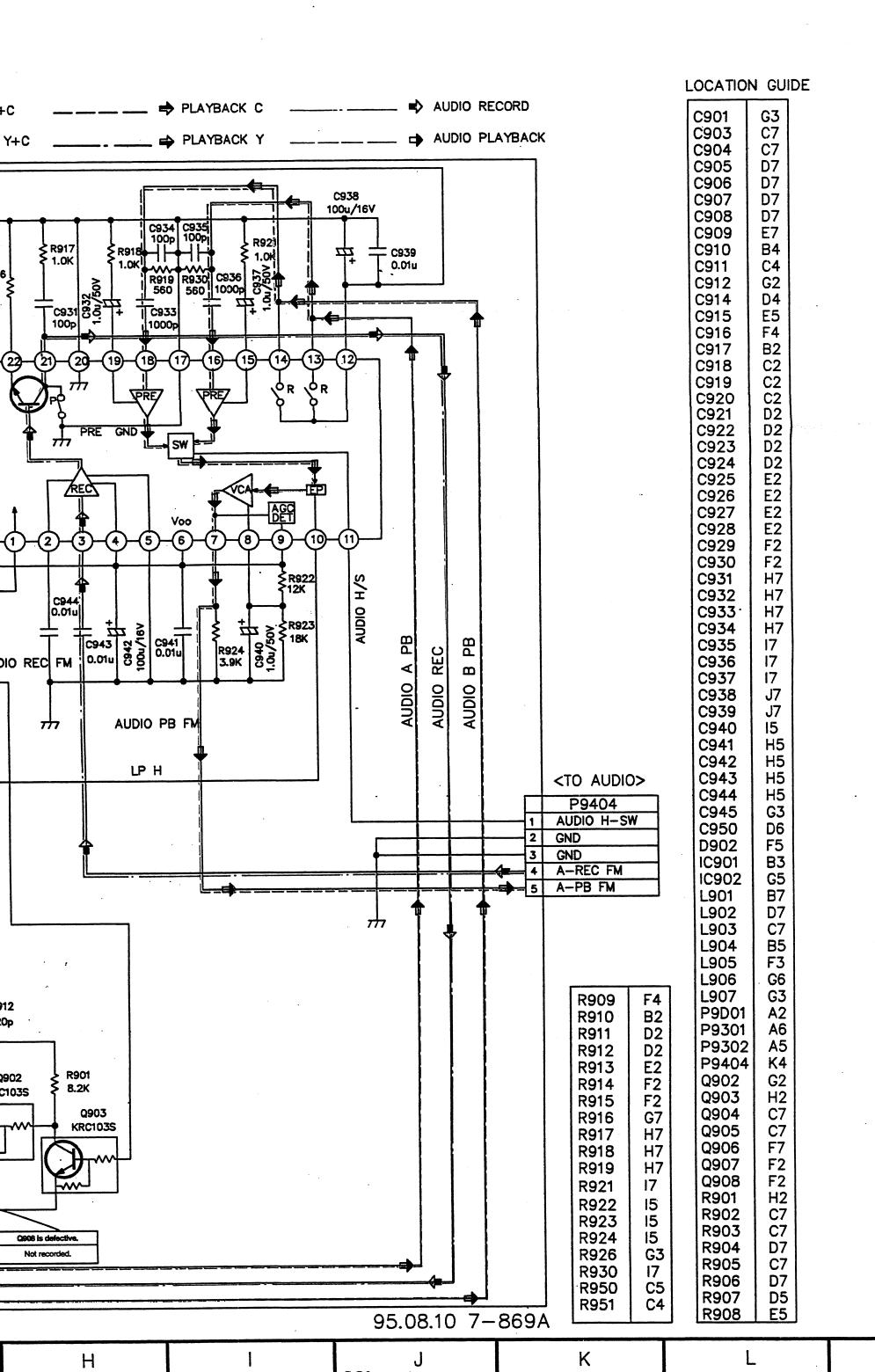












M

* VHS Pre-Amp IC Voltage Sheet

SP m	ode												PB	(REC)
5.0	2.0	4.7	0.3	1.3	2.2	0.1	0	0	2.8	2.3	2.5	4.1	0	2.7
(5.0)	(3.8)	(4.8)	(0.3)	(1.3)	(2.2)	(0.1)	(4.4)	(0)	(3.1)	(0.1)	(0)	(4.1)	(2.2)	(2.7)
30					25					20				
	IC901 (HA118019)													
1	1 5 10											15		
2.3	0	0.7	0	0.7	0	2.3	4.2	0	0	0	0	0	4.2	5.0
(4.3)	(2.2)	(2.2)	(0)	(2.2)	(2.2)	(4.3)	(4.3)	(0)	(0)	(0)	(0)	(0)	(4.2)	(4.8)

LP mo	de												PB	(REC)
5.0	2.0	4.7	0.3	1.3	2.2	4.9	3.1	0	2.8	2.2	2.5	4.1	0	2.7
(5.0)	(3.8)	(4.8)	(0.3)	(1.3)	(2.2)	(4.9)	(4.4)	(0)	(3.1)	(0.1)	(0)	(4.0)	(2.2)	(2.7)
30					25					20		•		
)					IC	901	(H	411	801	9)				
[1				5					10					15
4.2	0	0	0	0	Ö	4.2	2.3	0	0.7	0	0.7	0	2.3	5
(4.2)	(0)	(0)	(0)	(0)	(0)	(4.2)	(4.2)	(2.1)	(2.1)	(2.1)	(2.1)	(2.1)	(4.2)	(4.8)

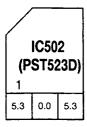
	SP mode PB (REC)													
	0	0	0	0.74	0.65	0	0.65	0.74	0	0	5.05			
1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4.27)	(4.27)	(4.98)			
			20	15										
	IC902 (BA7790S)													
	1_					10								
	0.33	0.49	5.05	5.05	0.02	5.06	2.39	3.02	5.06	0	2.53			
١	(6.0)	(1.37)	(2.77)	(4.98)	(0)	(4.98)	(3.60)	(2.97)	(4.98)	(0.02)	(0.01)			

LP mo	de								RE	C (PB)					
0	0	0	0.74	0.65	0	0.65	0.74	0	4.67	5.05					
(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4.27)	(4.27)	(4.98)					
	20 15														
)) IC902 (BA7790S)														
1	1 5 10														
0.33	0.50	2.82	5.05	0	5.05	2.70	5.05	5.05	5.11	2.53					
(6.0)	(1.37)	(2.77)	(4.98)	(0)	(4.98)	(3.6)	(2.97)	(4.98)	(0.02)	(0.01)					

* 8mm System IC Voltage Sheet IC501 (CXP80724'S)

PB mode
PB mode

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Voltage	2.5	0.0	0.0	0.0	0.0	0.0	1.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	5.3	5.3	5.2	0.0	5.2	0.0
Pin No.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Voltage	0.0	4.5	5.2	0.0	5.2	0.0	0.0	0.0	0.0	1.2	0.0	5.0	0.0	0.0	5.3	0.0	2.6	2.3	0.0	5.2	0.0	5.1	0.0	5.2	5.2
Pin No.	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Voltage	0.0	0.0	5.2	5.1	0.0	1,4	0.0	0.0	4.8	4.7	2.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.5	0.0	5.1	1.0	0.0	1.0
Pin No.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Voltage	1.0	2.6	5.2	5.2	4.9	5.2	5.3	0.0	0.0	5.7	0.0	5.2	0.0	5.3	5.3	5.3	0.0	5.3	0.0	0.0	5.2	0.0	5.2	2.3	2.6



0.0 0.0 0.0 4.6 0.0 0.0 0.0													
) IC503 (LB1836M)													
4.7	0.0	0.0	4.8	0.0	0.0	0.0							

0.0													0.0	
30														
7) IC504 (CXA1127M)													15
⊢ —	5 10												13	
0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.7	0.0	6.0	6.0	1.5	0.0	0.0	0.0

	6.0 0.8 0.8 0.8 0.8 0.8 1.6 0.9 1.0 1.0 1.0 1.8 0.0 0.0 0.0 0.0																
	30 25 20																
) IC505 (GL7416)																
i	1 5 10 15																
	0.0	0.0	0.0	0.0	0.0	1.0	3.5	5.8	5.8	0.0	0.0	6.0	0.0	1.8	0.0	0.0	

2.6	2.6	2.5	5.3	0.0	1.9						
	10										
ا (ر	IC5)6 (CXA	151	2M)					
1	1 5										
0.0	2.0	1.3	1.9	1.9	1.9	0.0					

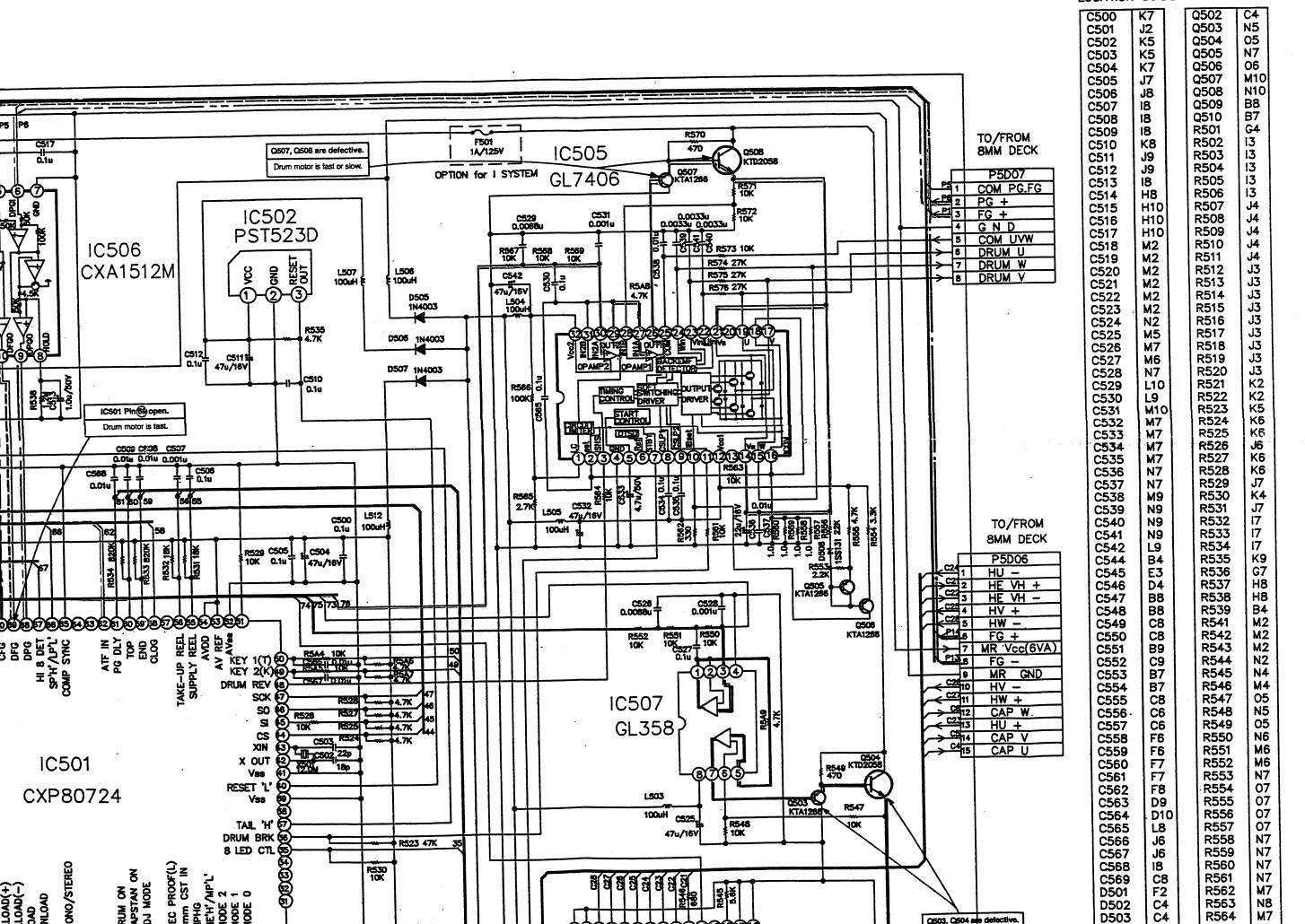
IC508 (XR10823)

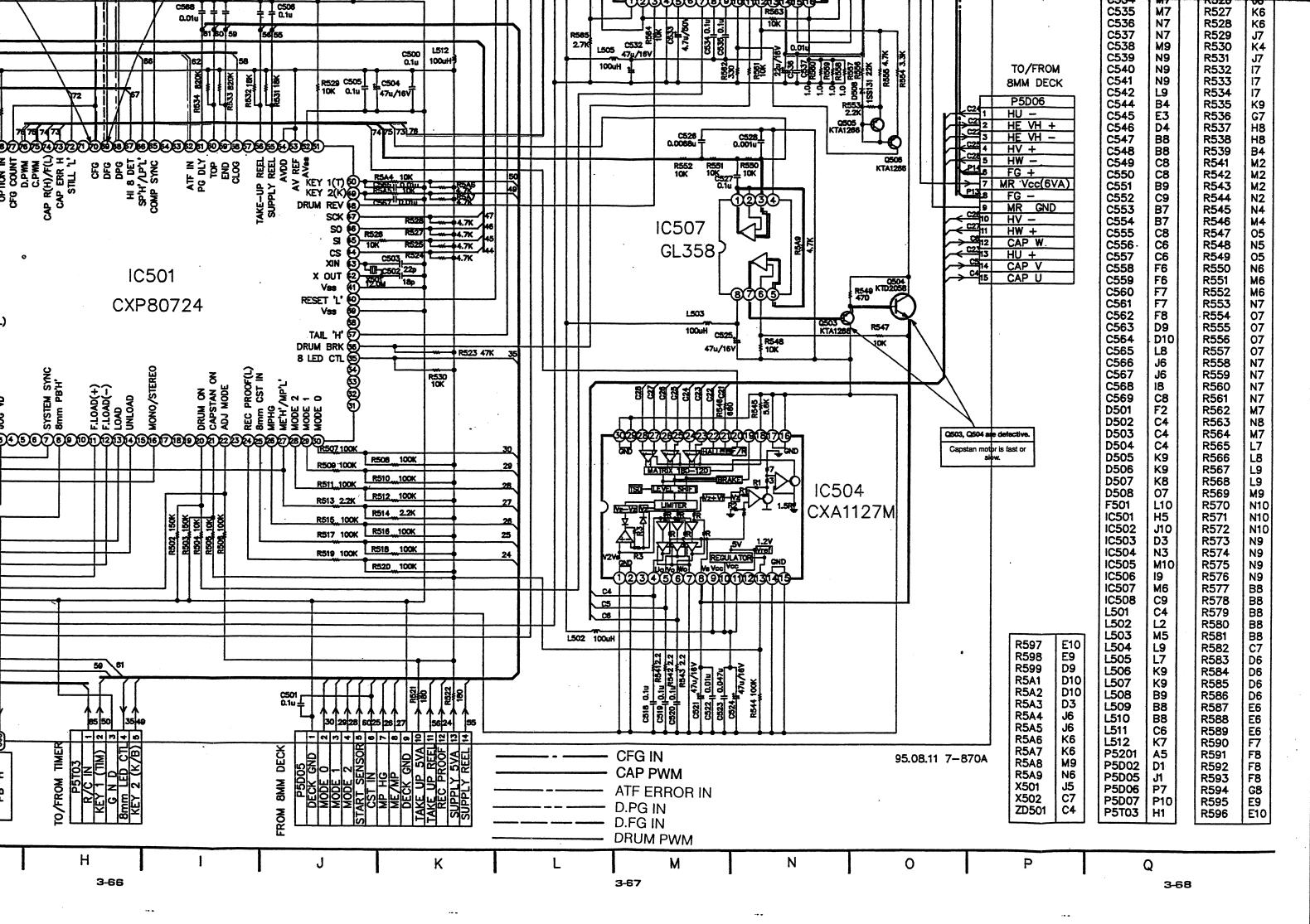
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Voltage	0.0	2.5	5.2	0.0	2.6	0.0	1.5	2.2	2.5	0.0	0.0	0.0	0.0	0.0	2.6	2.6
Pin No.	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
Voltage	3.4	0.8	2.0	0.0	0.0	0.6	0.9	2.6	0.0	2.6	2.6	2.6	2.6	0.0	2.5	2.5

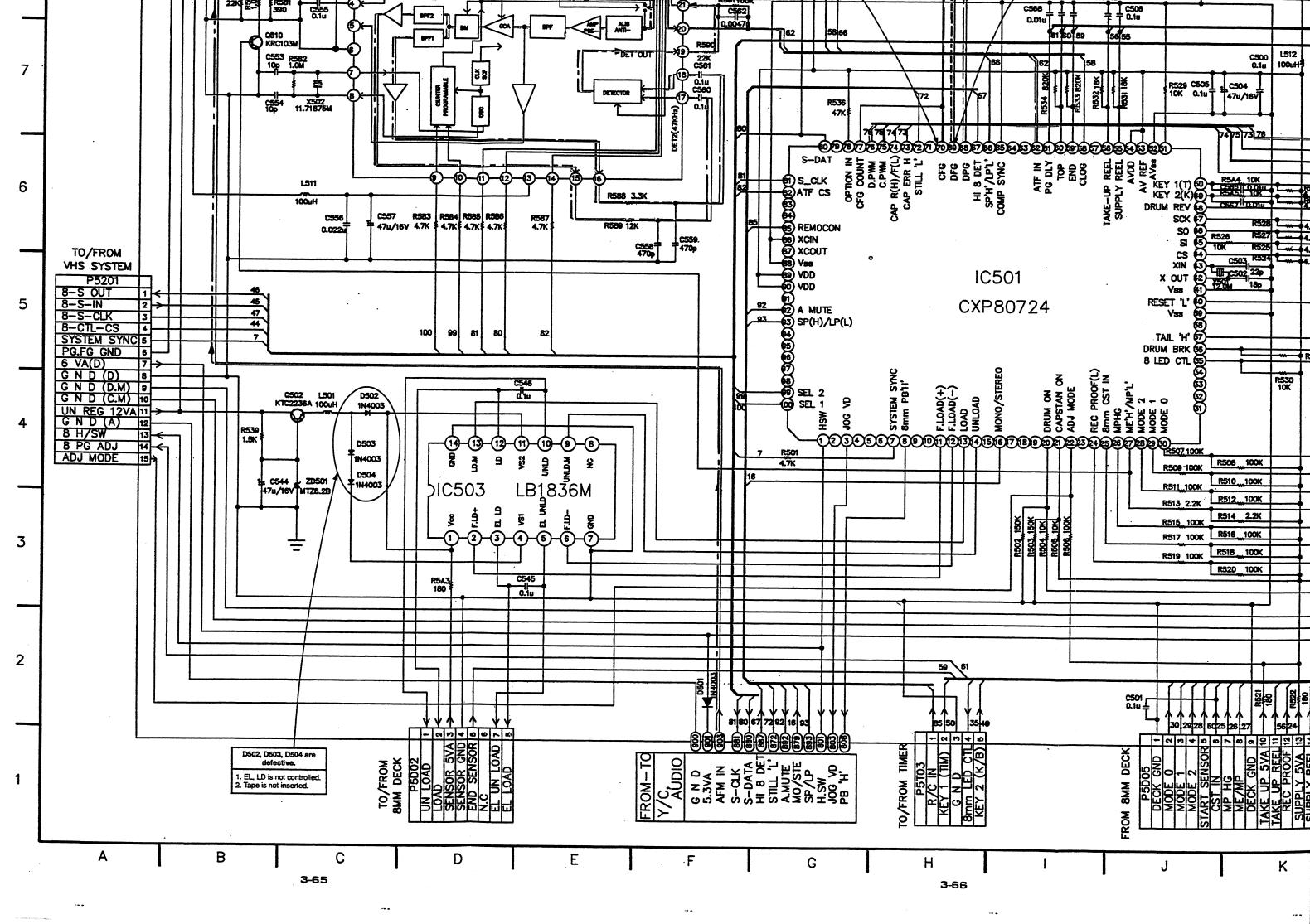
2. 8mm Circuit Diagrams 2-1. Main System (Servo, Syscon) Circuit Diagram 11 Q507, Q508 are defective. Drum motor is fast or slow. 10 R597 22K IC502 C564 R5A1 P Q Q 0.01u 820k 8 Q PST523D IC506 IC508 OGND PRESET OUT IC501 Pin 70 open. CXA1512M R595 4.7K 8 L507 100uH (150 £ 100 XR10823 Capstan motor is fast. L508 100uH R592 R593 IC501 Pin 69 open. R537 Drum motor is tast. 0.01u 0.01u 0.001u C562 7 62 C500 0.1u 22K C561 0.1u C560 100uH C553 R582 10p 1.0M R529 C505 ___C504 47u/16V SI S_CLK
E2 ATF CS
E33
E44
E5 REMOCON
E6 XCIN
E7 XCOUT
E8 Vss
E90 VDD
E90 VDD
E91 KEY 1(T) (0) 1 55.64 10K KEY 2(K) (0) 1 55.64 10K REY 2(K) (0) 1 55.64 10K DRUM REV (0) 1 55.64 10K L511 6 R588 3.3K 100uH SCK R584 R585 R586 4.7K 4.7K 4.7K R587 4.7K R583 R589 12K 47u/16V 4.7K 0.0221 _____C559. ______470p C5587 470p TO/FROM VHS SYSTEM IC501 X OUT Vas RESET 'L' CXP80724 44 TAIL 'H' 67 99 81 100 80 8 LED CIL PG.FG GND R530 10K G N D (D) 8 G N D (D.M) 9 G N D (C.M) 10 D502 1N4003 Q502 L501 KTC2236A 100uH

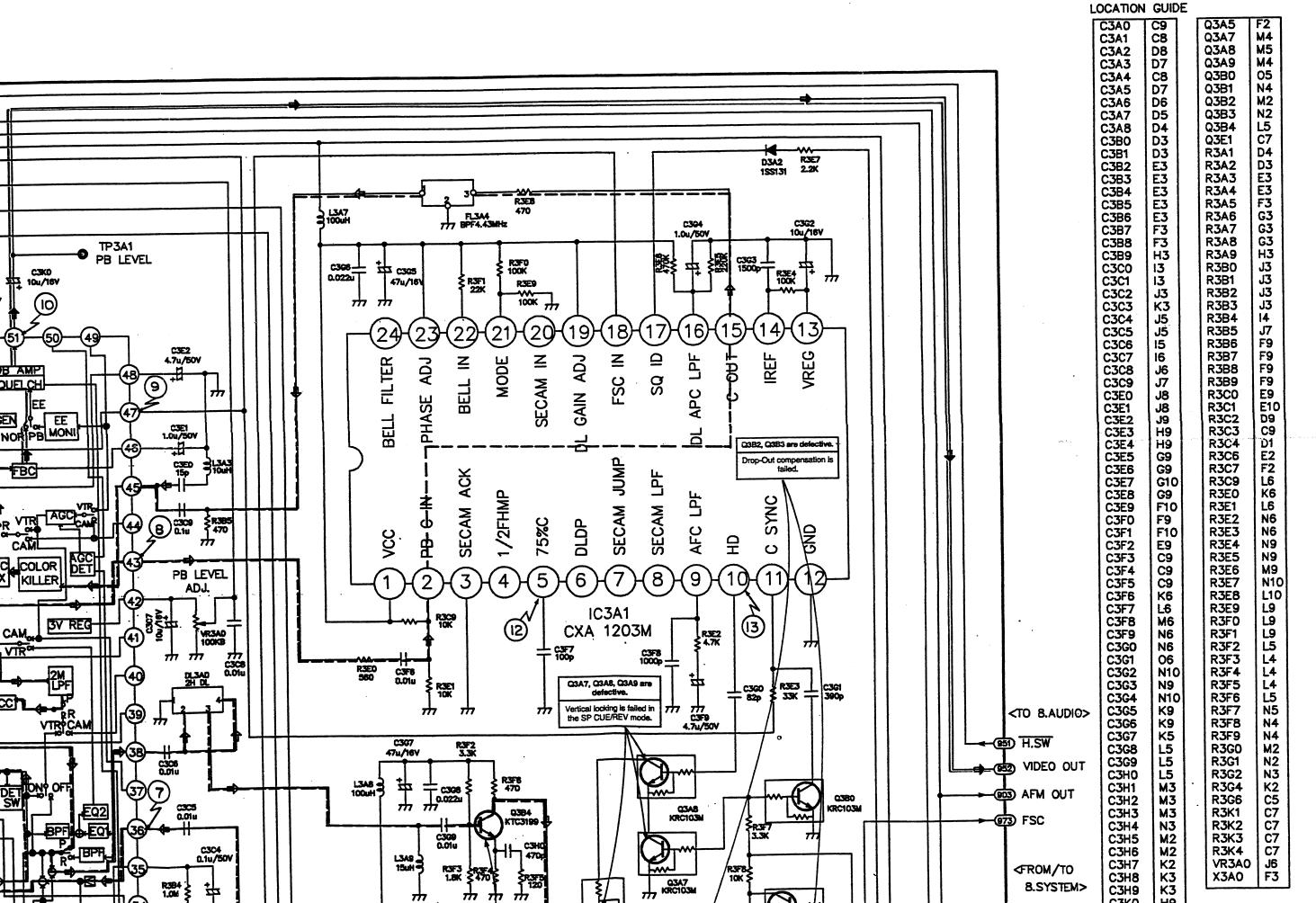
9

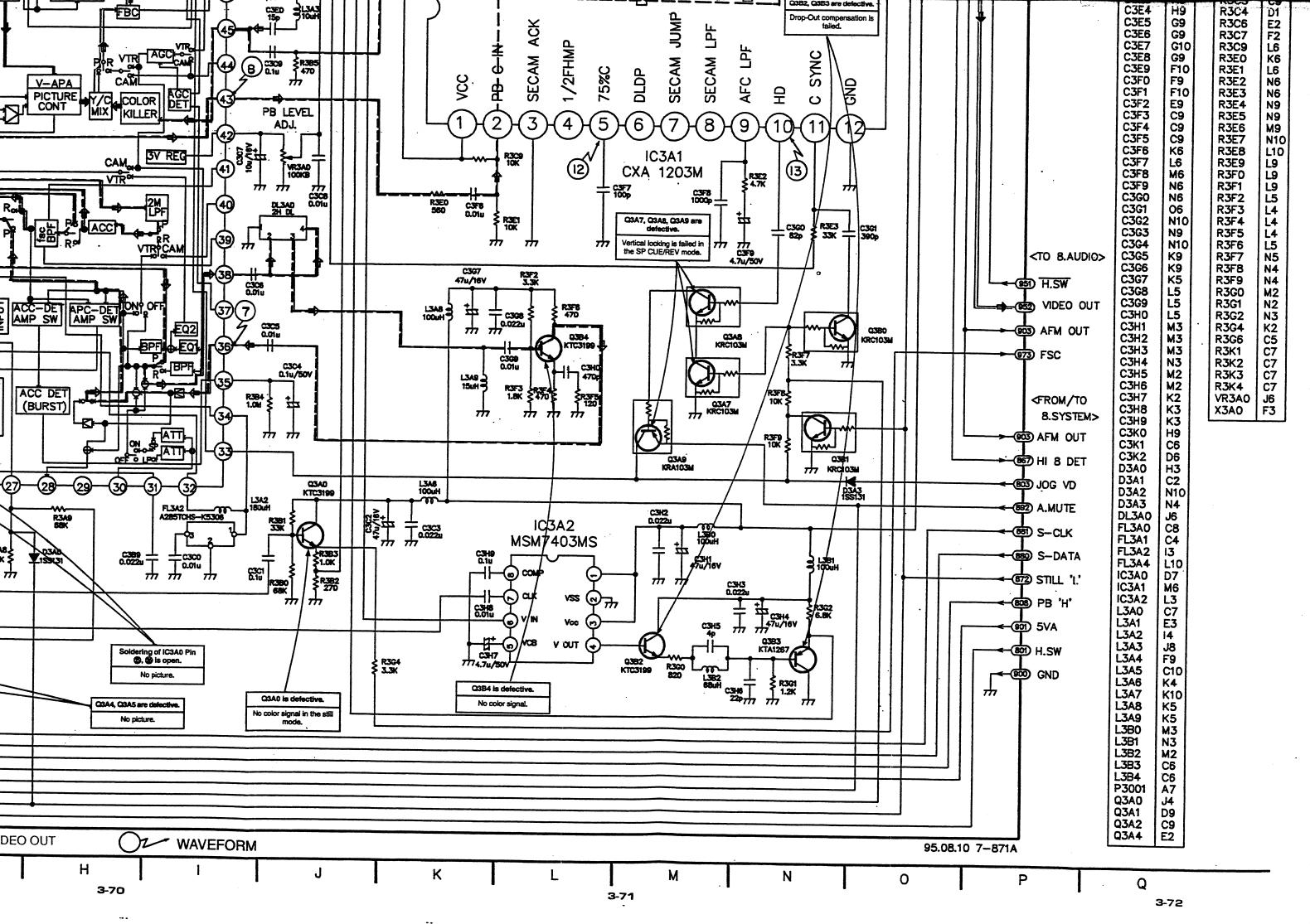
8

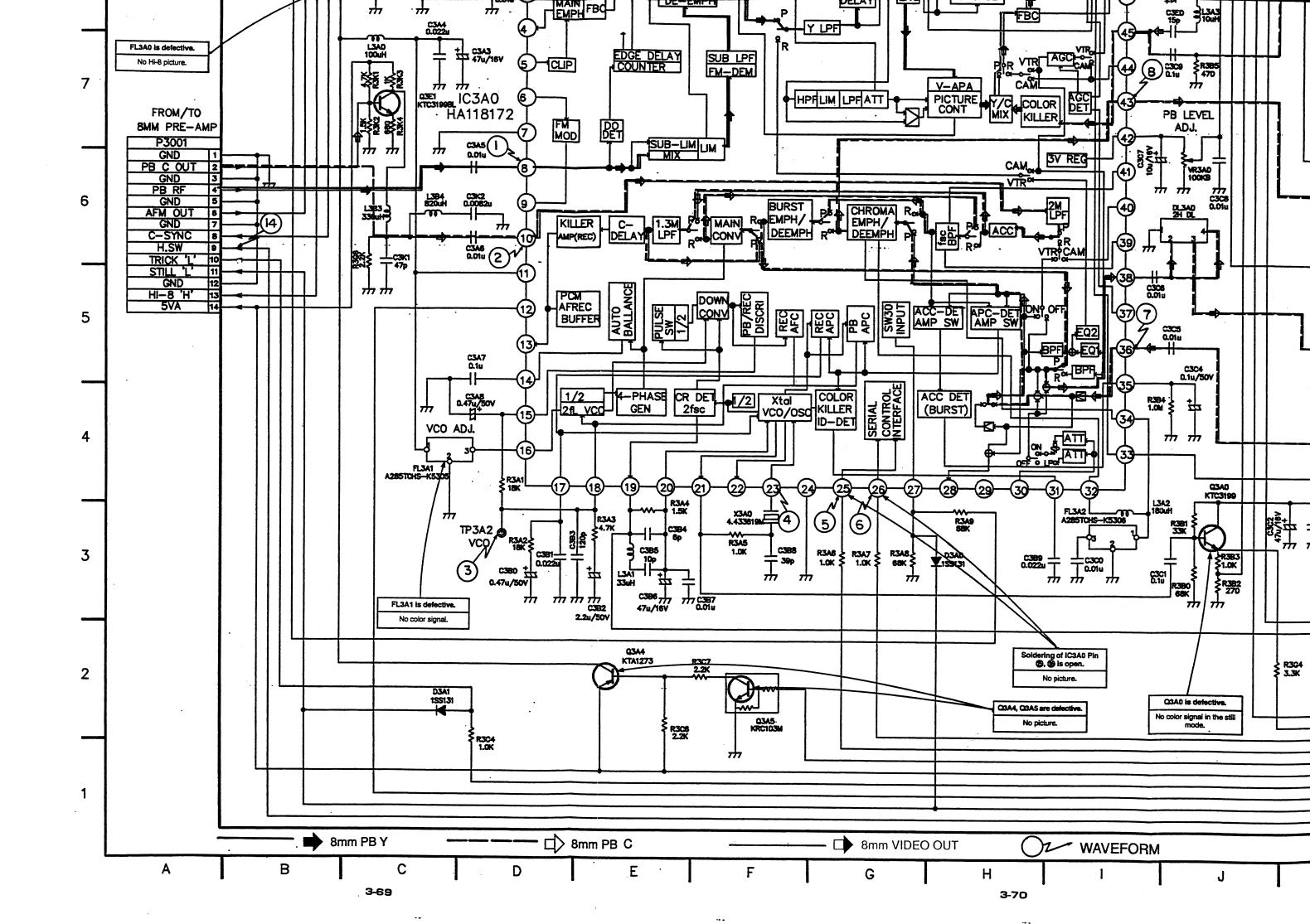






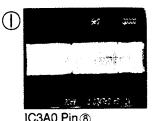






* 8mm Y/C Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)

3



IC3A0 Pin ® PB RF (20mV/5msec)



IC3A0 Pin (200mV/5msec)



IC3A0 Pin 40 C-SYNC (200mV/20µsec)



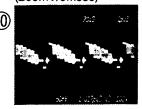
IC3A1 Pin (1)
HD Port
(100mV/20µsec)



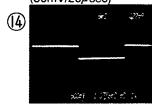
PB COLOR (5mV/20µsec)



IC3A0 Pin ® Serial CLOCK (200mV/5msec)



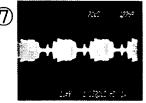
IC3A0 Pin (TP3A1) VIDEO OUT (50mV/20µsec)



P3001 Pin (9) H.SW (500mV/5msec)



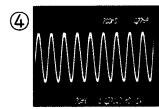
IC3A0 Pin [®] (TP3A2) PB Color VCO (100mV/20µsec)



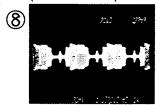
IC3A0 Pin ⊛ PB COLOR (10mV/20µsec)



IC3A0 Pin (a)
Y-CCD IN
(10mV/20µsec)



IC3A0 Pin
PB Fsc
(20mV/200nsec)



IC3A0 Pin (3)
PB Color
(20mV/20µsec)



IC3A1 Pin⑤ 75%C Port (100mV/50µsec)

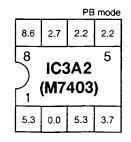
* 8mm Y/C TR Voltage Sheet

Port TR No.	Emitter	Collector	Base	Mode		
Q3A0	2.9	5.3	3.5			
0241	0.0	0.0	4.3	Hi-8 PB		
Q3A1	0.0	4.4	0.0	Normal PB		
Q3A2	0.0	0.0	0.0	Hi-8 PB		
Q3A2	0.0	0.0	4.4	Normal PB		
Q3A4	5.3	5.2	4.6	PB		
Q3A5	0.0	0.0	5.3	PB		
	0.0	0.0	0.0	PB		
Q3A7	0.0	2.9	0.4	Still		
	0.0	2.4	0.9	Cue/Rev		
	0.0	0.4	0.0	PB		
Q3A8	2.9	4.3	0.1	Still		
	2.4	5.2	0.3	Cue/Rev		
	0.0	0.9	0.4	PB		
Q3A9	4.3	0.9	4.3	Still		
	5.3	1.0	5.2	Cue/Rev		
	0.0	0.2	0.0	PB		
Q3B0	0.0	0.2	0.4	Still		
	0.0	0.2	0.9	Cue/Rev		
	0.0	0.0	5.3	PB		
Q3B1	0.0	0.7	0.2	Still		
	0.0	0.0	5.3	Cue/Rev		
Q3B2	3.0	5.2	3.6	PB		
Q3B3	2.4	0.0	1.8	PB		
Q3B4	1.2	4.0	1.8	PB		

* 8mm Y/C IC Voltage Sheet

																PB I	node
	0.0	2.0	1.2	3.3	1.2	2.6	2.1	5.1	2.1	3.1	2.4	3.2	1.5	2.2	1.3	3.1	
2.5	1				60		-	55							50		1.4
5.0		2 PIN HI-8 : 0.0 64 PIN HI-8 : 4.3												0.4			
0.5																	2.9
0.7													45	2.2			
2.0	5	5												2.9			
0.6														2.2			
0.0	IC3A0 (HA118172)												3.0				
3.0													2.1				
4.2							(H	Αī	18	1/2	(-)					40	2.3
2.3	10																2.2
5.1																	1.8
0.0																	1.9
0.0																	3.0
2.3																35	2.9
2.2	15																2.1
5.1				20					25					30			0.8
	2.5	2.5	2.5	2.5	3.0	2.2	2.8	0.0	5.1	5.4	1.3	2.2	0.0	3.0	1.1	2.1	

		PB mode											
	1.5	5.2	4.7	2.7	0.1	5.2	0.7	4.8	1.9	2.2	2.2	4.3	
	24	20 15											
) IC3A1 (CXA1203M)												
	1				5			10					
į	5.2	2.5	0.1	0.0	2.7	0.0	2.1	2.6	2.1	1.0	0.6	0.0	



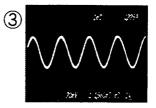
• 8mm AUDIO Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)



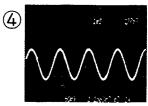
Q4A0 Base AFM IN (20mV/5msec)



IC4A0 Pin ①
Mod/Dem DET (L)
(20mV/1msec)



IC4A0 Pin[®] MAT IN (L) (20mV/1msec)



P4V02 Pin⑤ AUDIO (L) OUT (50mV/1msec)

• 8mm Audio TR Voltage Sheet

PB mode

Port TR No.	Emitter	Collector	Base
Q4A0	1.2	3.2	1.8
Q4A1	2.6	5.2	3.2
Q4A2	0.0	0.0	0.0
Q4A3	0.0	0.0	0.0
Q4A4	0.0	5.2	0.0
Q4A5	5.3	0.0	5.2
Q4A6	0.0	2.6	2.6

* 8mm Audio IC Voltage Sheet

PB mode

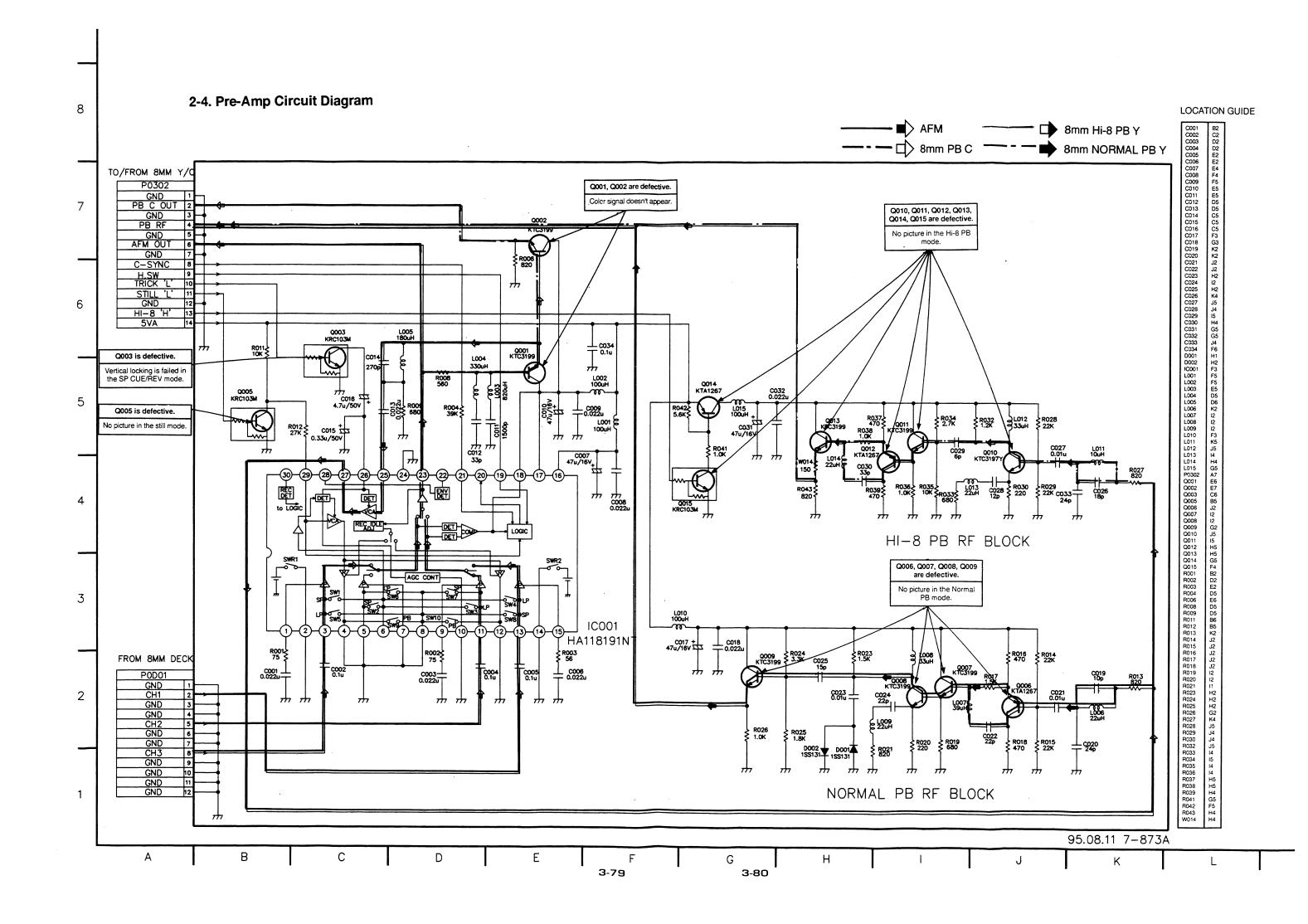
	91111		·uu	10 1	U V	Oite	aye) i	CCI	·										PB	mode
	1.5	1.9	0.8	0.0	2.3	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.2	0.0	0.0	2.3	2.3	2.3	2.3	2.3	
2.3	60					55					50					45				40	2.3
5.3																					2.4
2.1																					5.3
1.8	1																				2.8
4.7	65																				2.3
0 .0	66 F	PIN MC	ONO:	4.7V																35	2.3
2.8																					2.3
0.0																					5.3
5.2									,	C4/	۱۵										5.3
5.5	70									118		F									2.9
2.8																				30	0.4
2.8																					0.0
0.0																					0.0
3.6																					2.3
0.8	75																				2.3
1.7																				25	2.3
0.0																					2.8
5.3																					0.0
2.1																					2.3
3.7	1				5					10					15					20	2.3
	2.3	1.5	1.8	0.7	0.0	2.3	2.3	2.3	2.3	2.3	2.3	3.0	2.3	0.2	0.2	2.3	2.3	2.3	2.3	2.3	

* 8mm Pre-Amp TR Voltage Sheet

Port TR No.	Emitter	Collector	Base	Mode
Q001	2.4	5.1	3.1	
Q002	1.7	5.1	2.4	
Q003	0.0	0.0	4.9	PB
4000	0.0	3.6	0.1	Cue/Rev
Q005	0.0	0.0	5.1	PB
4000	0.0	4.4	0.2	Still
Q006	3.4	1.8	2.7	
Q007	2.7	5.2	3.3	
Q008	2.0	5.1	2.7	
Q009	1.2	5.2	1.8	Normal PB
Q009	3.3	5.1	1.8	Hi-8 PB
Q010	1.1	5.1	1.8	
Q011	3.3	5.1	4.0	
Q012	4.0	1.1	3.3	
Q013	0.0	0.0	1.2	Normal PB
Q 010	3.3	5.1	4.0	Hi-8 PB
Q014	5.2	0.0	5.2	Normal PB
Q014	5.2	5.1	4.4	Hi-8 PB
Q015	0.0	5.2	0.0	Normal PB
QUIS	0.0	0.1	4.2	Hi-8 PB

* 8mm Pre-Amp IC Voltage Sheet

														РВ	mode
	0.1	0.1	0.3	1.8	1.5	3.7	0.0	3.1	3.9	0.2	2.3	2.6	5.1	5.1	5.2
	30					25	IC	001			20				
ſ	<u>ر</u>				5	(H <i>i</i>	A11			「) 10					15
ŀ															
	2.2	0.0	0.7	0.0	0.0	3.2	0.0	0.0	2.1	0.0	0.7	0.0	0.7	0.0	2.1



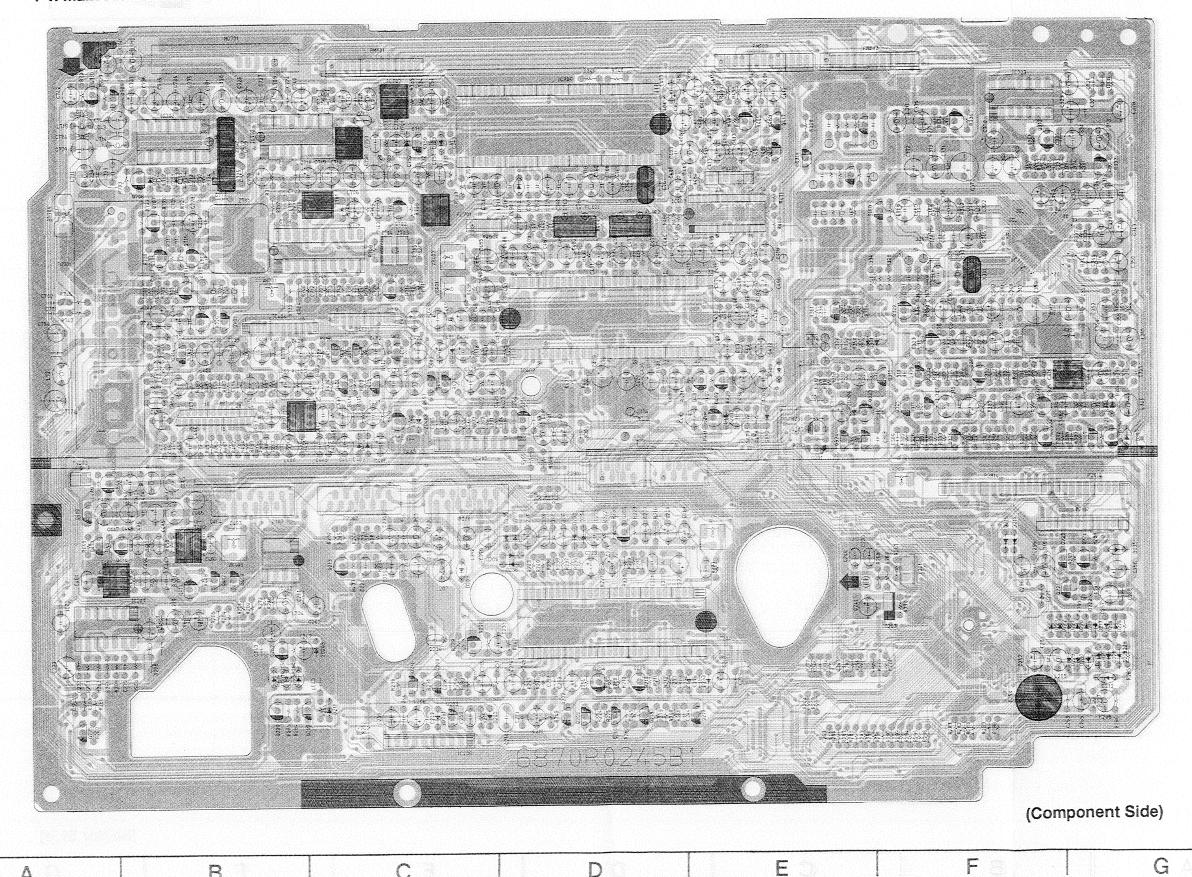
PRINTED CIRCUIT BOARD DIAGRAMS

1. VHS Printed Circuit Board

1-1. Main P.C.Board

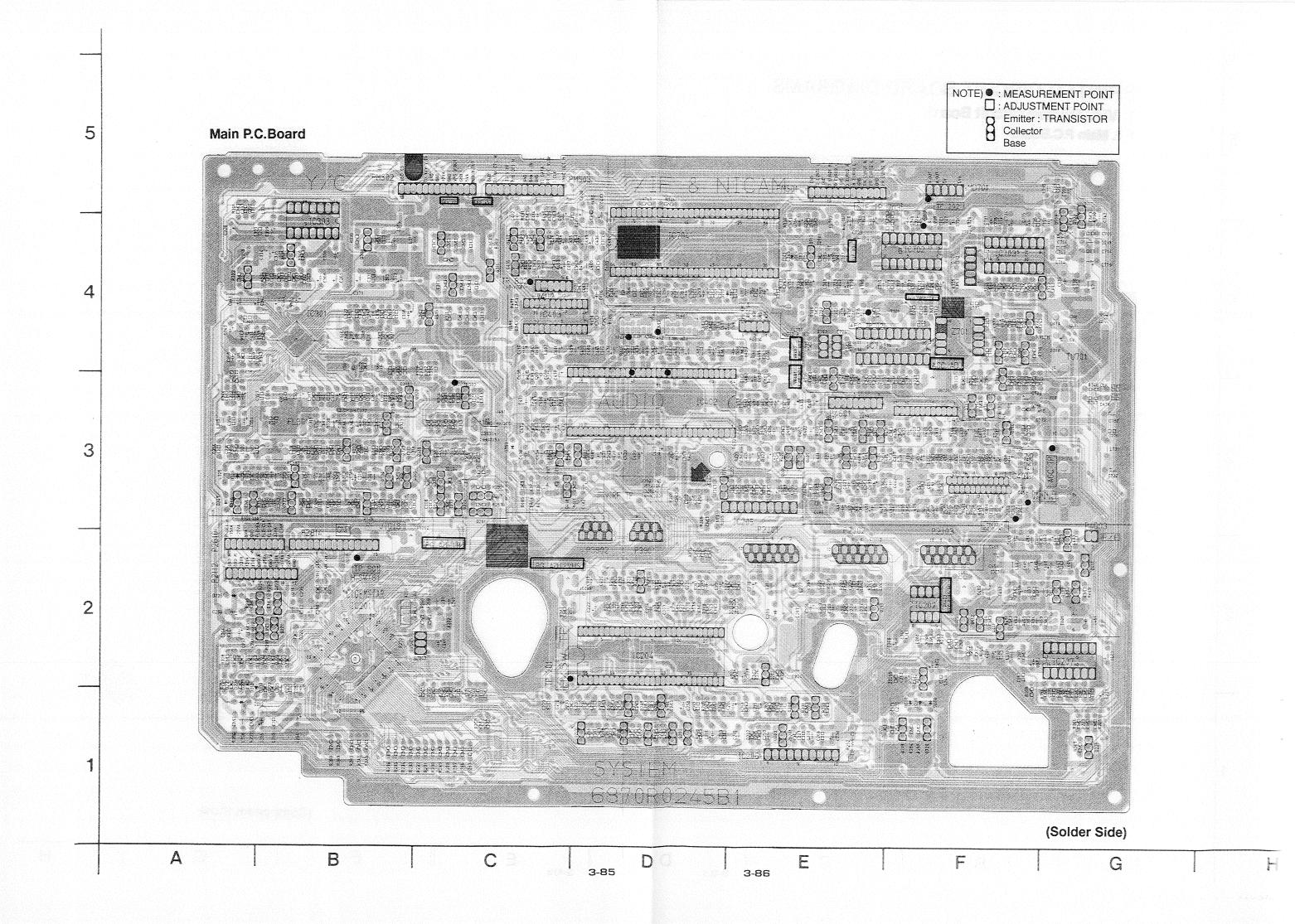
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A

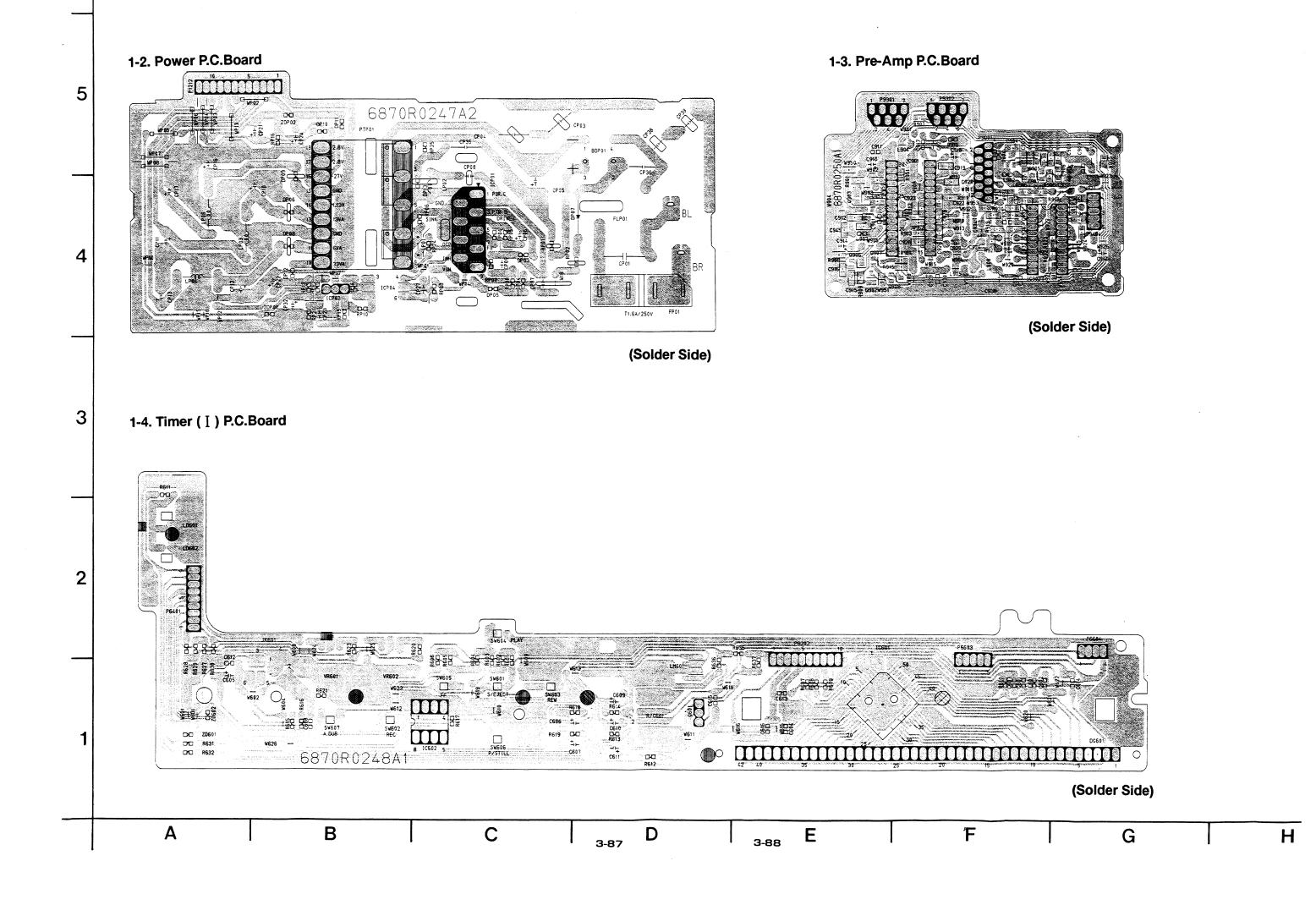


3-83

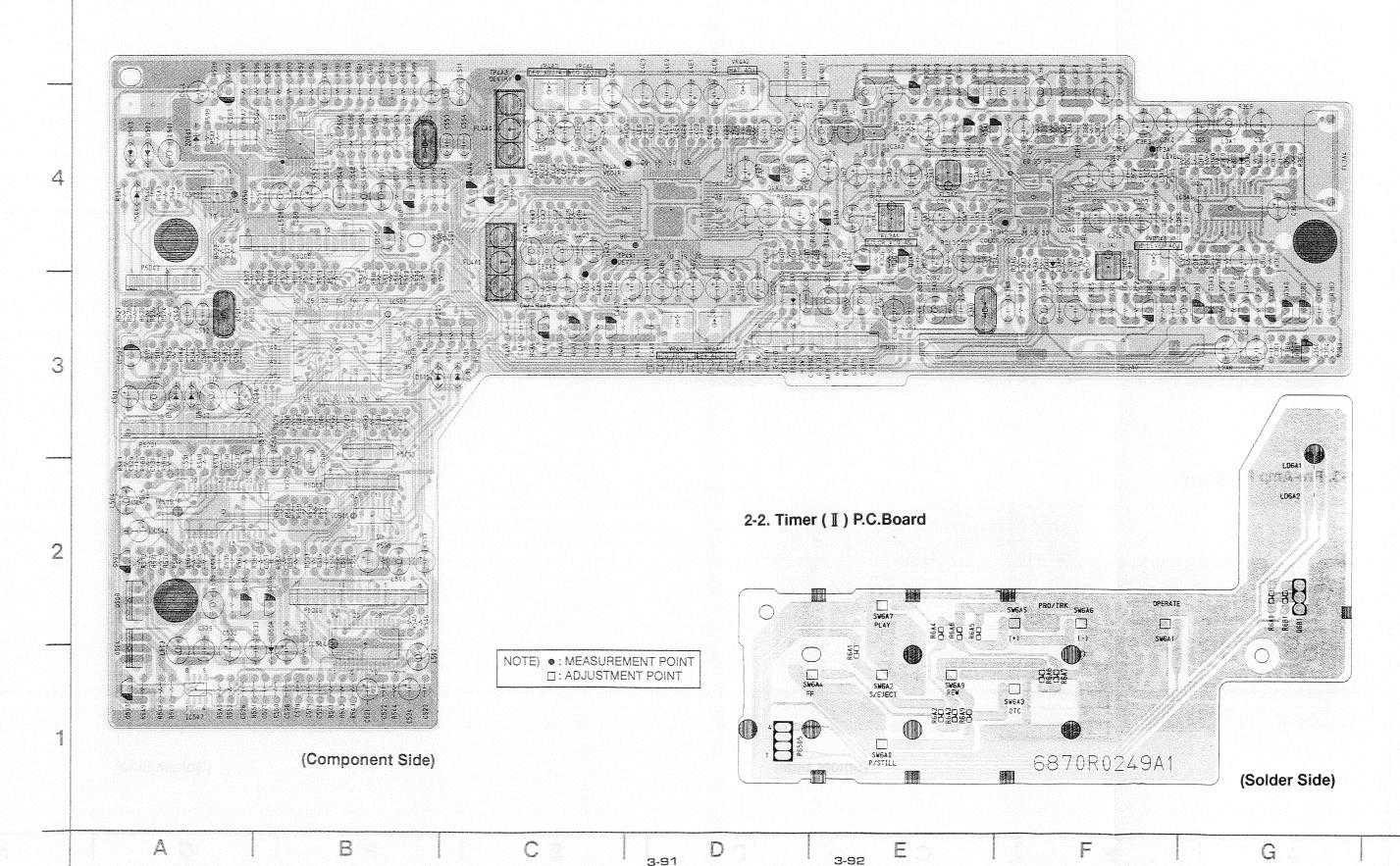
3-84



1-6. Scart In/Out P.C.Board 1-5. Deck Junction P.C.Board 5 4 (Solder Side) (Component Side) 3 (Solder Side) G В 3-90 3-89



5



2-4. Deck Junction P.C.Board

PHOTO LED

TOP-SENSOR

SPECIAL SENSOR

SPECIAL SENSOR

SPECIAL SENSOR

CONTRACTOR SENSOR

2

3

5

4

1

A B C 3-95 D

(Solder Side)

MEMO

SECTION 4 MECHANISM

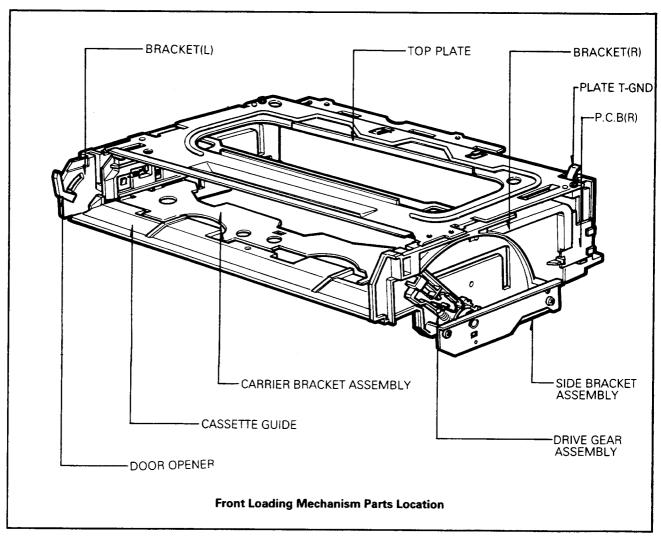
CONTENTS

SECTION 4-1 VHS DECK MECHANISM

SECTION 4-2 8mm DECK MECHANISM

SECTION 4-1. VHS DECK MECHANISM FRONT LOADING MECHANISM DISASSEMBLY

• Front Loading Mechanism Parts Location



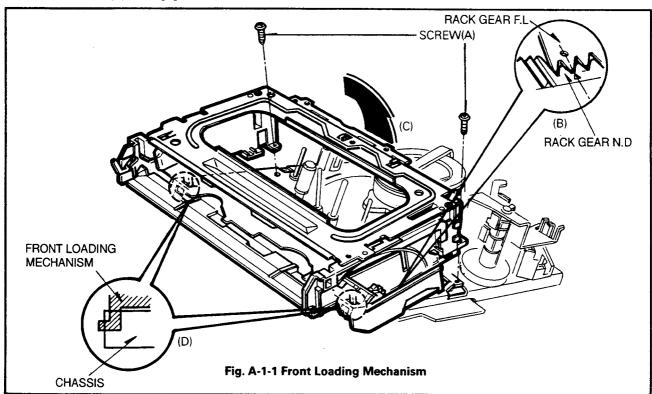
- Component list below will be discribed as if the top and bottom covers and the front panel have already been removed.
- 2. P.C.B Assembly
- 3. Top Plate
- 4. Carrier Bracket Assembly

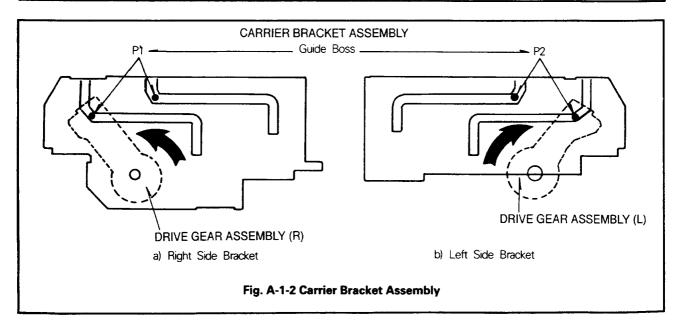
- 5. Cassette Guide
- 6. Side Bracket Assembly
- 7. Bracket(L), (R)
- 8. Door Opener
- 9. Drive Gear Assembly

1. Front Loading Mechanism Assembly (Fig. A-1-1)

- 1) Remove the Top and Bottom Covers and the Front panel.
- 2) Unplug the connector.
- 3) Remove two screws(A).
- Lift up the Front Loading Mechanism in the direction of arrow(C).

- 1) When disassembling and reassembling
- ① Give special attention to removal and to reassemble, because two tabs(D) are engaged.
- ② Make sure that Bosses of Bracket(L),(R) are properly engaged in the holes of the chassis.
- ③ To reassemble Front Loading Mechanism, the Drive Gear Assembly should be turned in a counterclockwise as shown in Fig. A-1-2 so that the Rack Gear N.D of Front Loading Mechanism Assembly is meshed into Rack Gear F.L of Deck Mechanism Assembly correctly as shown in Fig. A-1-1.(B).





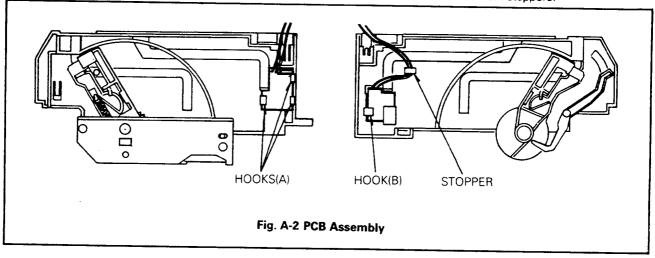
2. PCB(Printed Circuit Board) Assembly

2-1. P.C.B Assembly(R)(Fig. A-2)

- 1) Remove the PCB Assembly(R) by pushing three Hooks (A) outward.
- 2) Release the Lead wire from stoppers.

2-2. PCB Assembly(L).(Fig. A-2)

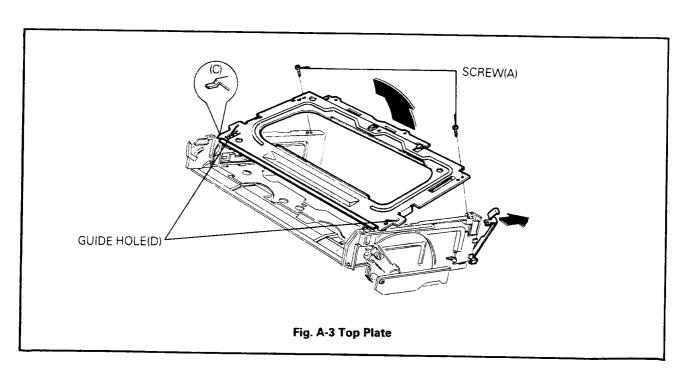
- Remove the PCB Assembly(L) by pushing the Hook(B) outward.
- 2) Release the Lead Wire from stoppers.



3. Top Plate(Fig. A-3)

- 1) Remove two screws(A).
- 2) Push the upper part of Top plate Ground and then lift up the Top Plate in the direction of arrow(B).

- When reassembling, be certain that the tabs(C) of Top Plate is in both Bracket(L),(R).
- ① Then align the guide holes(D) of Top Plate with Bosses of side Bracket(L),(R).



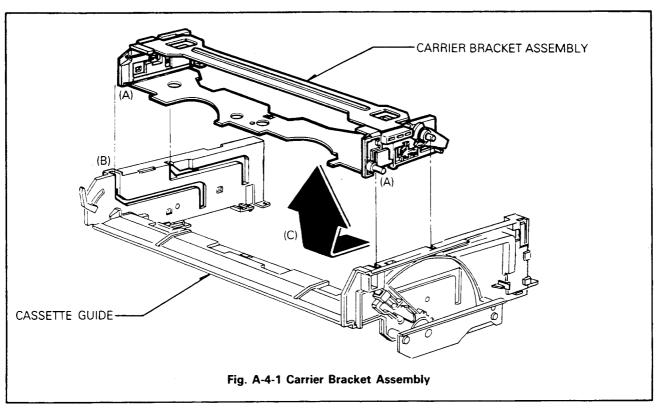
4. Carrier Bracket Assembly

4-1. Carrier Bracket Assembly(Fig. A-4-1)

1) Remove the Carrier Bracket Assembly by moving it in the direction of arrow(C).

* NOTE

When reassembling, be sure that parts(A) of Carrier Bracket Assembly are seated in parts(B) of Bracket(L),(R).



4-2. Cassette Opener(Fig. A-4-2)

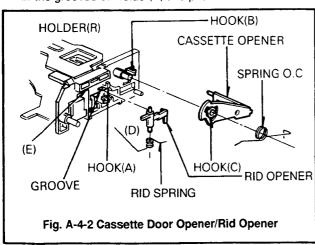
- 1) Release the spring O.C from the Hook(A) and then release it from Hook(C) of cassette opener.
- 2) Remove the cassette opener by releasing the Hook(B) from the Holder(R).

4-3. Rid Opener(Fig. A-4-2)

1) Remove the rid opener by pushing it outward.

* NOTE

1) When reassembling, seat the upper part of the rid opener in the grooved of Holder(R) and push it inward.

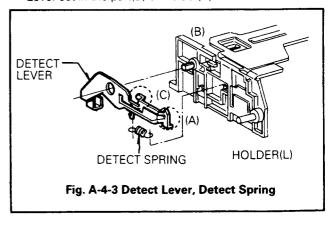


4-4. Detect Lever and Detect Spring

- 1) Remove the spring detect.
- Lower the side(A) of Detect Lever and then remove the Detect Lever by pushing it outward.

* NOTE

1) When reassembling, make sure that the part(C) of Detect Lever set in the part(B) of Holder(R).

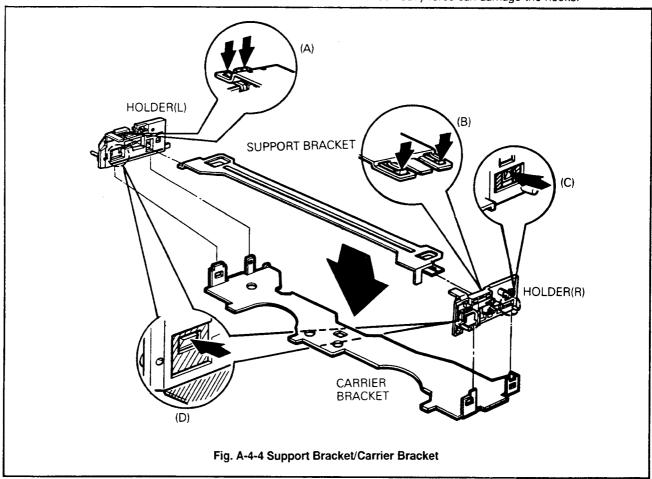


4-5. Support Bracket Assembly(Fig. A-4-4)

1) Take the Support Bracket out by releasing hooks(A),(B).

* NOTE

1) When disassembling and reassembling, be careful because heavy force can damage the hooks.



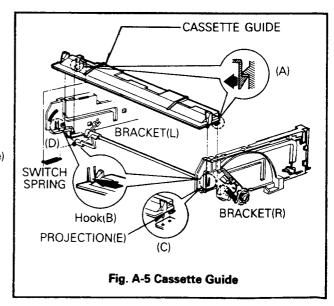
4-6. Carrier Bracket Assembly(Fig. A-4-4)

1) Remove the Carrier Bracket by releasing hooks(C),(D).

5. Cassette Guide(Fig. A-5)

- 1) Remove the Switch Spring with the Front Loading Mechanism Assembly turned over.
- 2) Push two hooks(B) outward.
- 3) Remove the Cassette Guide by pushing two hooks(A). outward(if one is removed, the other will be easy to remove)

- 1) When reassembling
- ① Seat projections(E) of Cassette Guide in holes of Bracket Assembly(L),(R) and then engage the Hook(A).
- ② After finishing previous step, fix the Cassette Guide to the Bracket Assembly(L),(R) by pushing two hooks(B) inward.

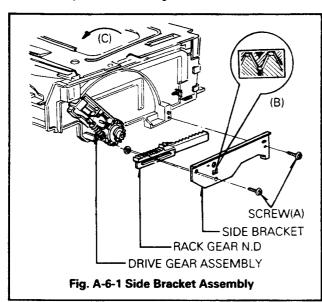


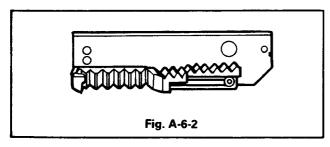
6. Bracket Assembly Side (Fig. A-6-1)

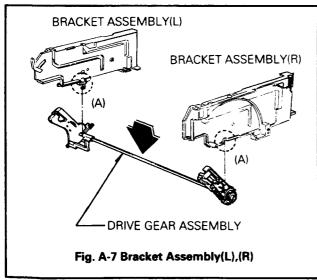
1) Remove two screws(A) and then remove the Side Bracket Assembly and the Rack Gear N.D.

* NOTE

- 1) When reassembling
- Turn the Drive Gear Assembly in the direction of arrow (C).
- ② Reassemble the Rack Gear N.D. to the Side Bracket Assembly, as shown in Fig. A-6-2, and then reassemble







it to the Bracket Assembly(L), This time the Assembling Figure should be the same as(B) at the rectangular hole of Bracket Side.

7. Bracket Assembly(L),(R)(Fig. A-7)

 Seperate the Bracket Assembly(L),(R) from the Gear Assembly Drive.

* NOTE

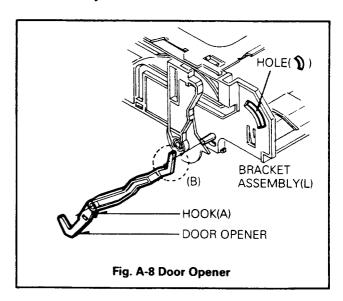
1) When reassembling, seat the shaft in the part(A) of Bracket Assembly(L),(R).

8. Door Opener(Fig. A-8)

1) Remove the Door Opener by pushing Hook(A) outward.

NOTE

1) When reassembling, seat the part(B) of Door Opener in the hole() of Bracket(L).



9. Drive Gear Assembly

9-1. Drive Gear Assembly(Fig. A-9-1)

1) Remove the Drive Gear Assembly from the Bracket Assembly(L),(R).

9-2. Cushion Spring(Fig. A-9-1)

1) Remove the cushion spring from the Gear R.

9-3. Cap-D(Fig. A-9-1)

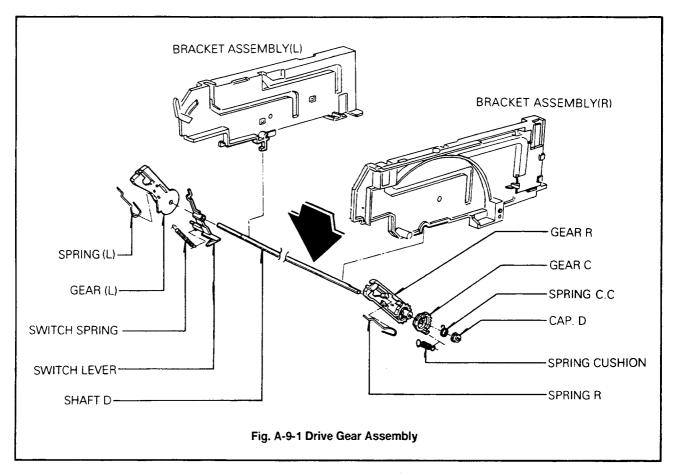
1) Remove the Cap-D by lifting it up.

9-4. Spring C.C(Fig. A-9-1)

1) Remove the Spring C.C from the Gear R.

9-5. Gear C(Fig. A-9-1)

 Remove the Gear C by lifting up when the projection of Gear C is aligned with the hole of Gear R while rotating the Gear C in the counterclockwise direction.



* NOTE

 When reassembling, seat the projections of Gear R in the holes of Gear C when the projection of Gear R is aligned with the hole of Gear C, and then keep the Gear C turned in the clockwise direction.

9-6. Gear R(Fig. A-9-1)

1) Lift up the Gear R from the Shaft.

9-7. Spring R(Fig. A-9-2)

1) Remove the Spring R by releasing Hooks.

* NOTE

 When reassembling, be certain Spring R in the part(A) of Gear R.

9-8. Gear L.(Fig. A-9-1)

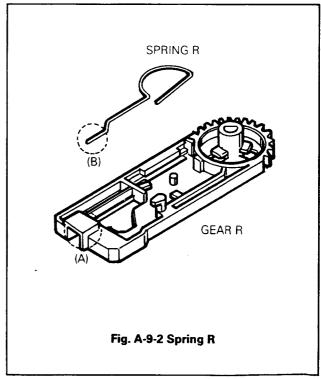
1) Remove the Gear L from the shaft.

9-9. Spring L (Fig. A-9-2)

- 1) Remove the Spring L by releasing Hooks from the Gear L.
- * NOTE: (Refer to the Spring R Section)

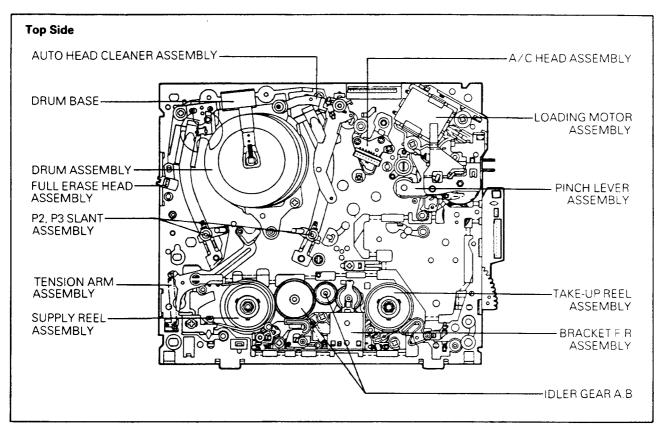
9-10. Switch Lever(Fig. A-9-1)

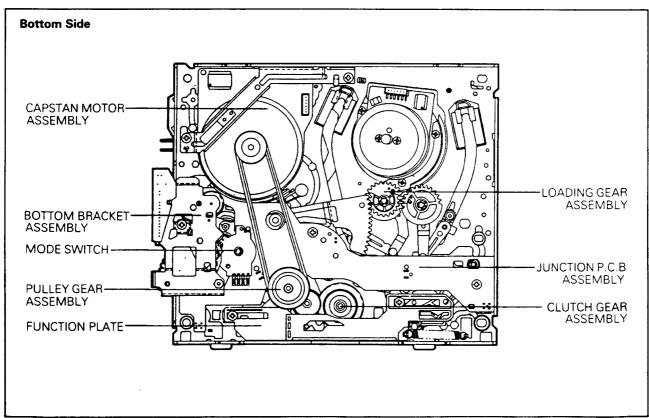
1) Remove the Switch Lever from the shaft.



DECK MECHANISM DISASSEMBLY

• Deck Mechanism Parts Location



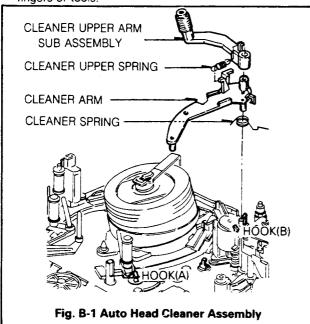


1. Auto Head Cleaner Assembly (Fig. B-1) (Optional Item)

- Remove the Cleaner Arm Assembly (Auto Head Cleaner Assembly) by pushing the Locking Tab.(B) outward.
- Remove the Cleaner Upper Spring and then remove the Cleaner Upper Arm Sub Assembly.
- 3) Remove the Cleaner Spring.

* NOTE

1) When reassembling, do not touch the Video Head Tip with fingers or tools.

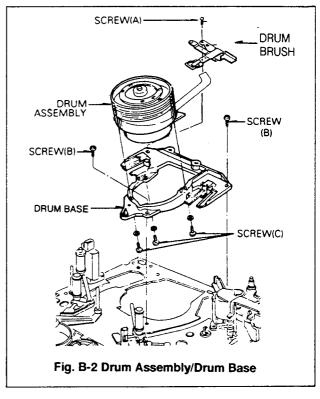


2. Drum Assembly and Drum Base(Fig. B-2)

- 1) Remove the Auto Head Cleaner Assembly. (Option)
- Unplug the connector with the Deck Mechanism Assembly turned over.
- 3) Loosen the screw(A) and then lift up the Drum Brush.
- 4) Remove two screws(B) and then lift up the Drum Assembly and Drum Base from the Deck Mechanism Assembly
- 5) Separate the Drum Assembly from the Drum Base by Loosening three screws(C) on the back of Drum Base.

* NOTE

- 1) When disassembling and reassembling
- Do not touch the Video Head tip with fingers or tools.
 (Give special attention to disassembling and reassembling of Auto Head Cleaner Assembly)
- ② After reinstalling the Drum Brush, the Drum Brush should be aligned with the center of vertical axis of Drum Assembly.
- 3 After completing the reassembly, adjust the transportation system and the Servo P.G.

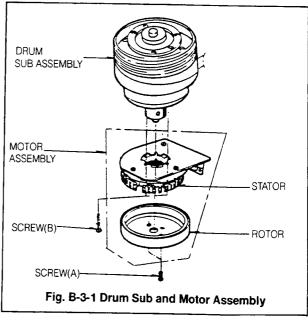


3. Drum Assembly

3-1. Drum Sub and Motor Assembly (Fig. B-3-1)

: New Type (No two screws and P.C.B on the Drum)

- 1) Remove the Drum Base from the Deck Mechanism Assembly.
- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A) and then remove the rotor.
- 4) Remove three screws(B) and then remove the stator.



• NOTE

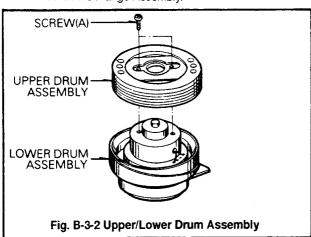
- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.

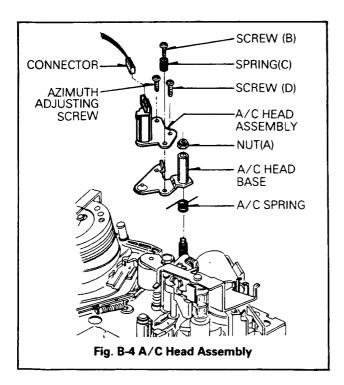
3-2. Upper and Lower Drum Assembly (Fig. B-3-2)

- : Old Type (There are two screws and P.C.B on the Drum)
- 1) Remove the Drum Assembly and Drum Base from the Deck Mechanism Assembly.
- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A).
- 4) Remove the P.C.B.
- 5) Separate the upper Drum Assembly from the Lower Drum Assembly.

* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.
- ② Make sure that the color(white) marked on the P.C.B of the upper Drum should coincide with the color(Green) marked on the Flange Assembly.





4. A/C(Audio/Control) Head Assembly (Fig.B-4)

- 1) Unplug the connector
- 2) Remove the Nut(A), and then lift up the A/C Head Assembly.
- 3) Remove the Azimuth Adjusting Screw.
- Remove two screws(B),(D) and then separate the A/C Head Assembly from the Base A/C Head Assembly.

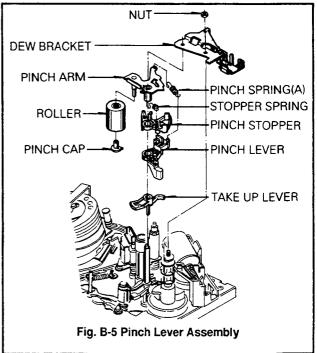
NOTE

- 1) When disassembling
- (1) First of all, release the spring A/C.
- ② Do not touch the A/C Head Tip with fingers or tools.
- 3 After reinstalling the Audio Control Head Assembly, adjust the Tilt, Azimuth and Height of A/C Head.

5. Pinch Lever Assembly(Fig. B-5)

- 1) Remove one Nut, and then remove the Dew Bracket.
- 2) Lift up Pinch Lever Assembly.
- 3) Remove the Pinch Spring, and remove the Pinch Lever.
- 4) Remove the Stopper Spring and remove the Pinch Stopper by lifting it up when the Hook of Pinch Stopper is aligned with the hole of Pinch Arm while rotating the Pinch Stopper in the counterclockwise direction.
- Remove the Pinch Cap, and then remove the Pinch Roller Assembly.

- 1) When disassembling and reassembling
- ① Be careful not to get any foreign substance on the Roller.
- When disassembling the Pinch Cap, be careful not to damage the Pinch Arm.

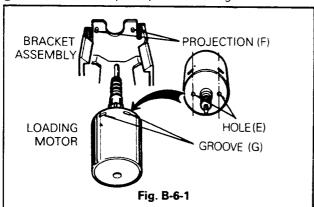


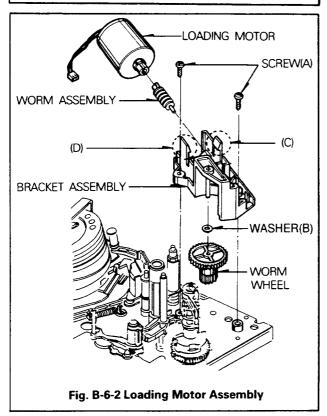
6. Loading Motor Assembly(Fig. B-6-1, B-6-2) 7. Take Up Lever(Fig. B-7)

- 1) Remove the Dew Bracket.
- 2) Unplug the connector from the Junction P.C.B Assemblv
- 3) Remove two screws(A).
- 4) Remove the worm wheel by pushing it down.
- 5) Remove the Loading Motor Assembly by pushing(C) and (D) outward.
- 6) Remove the worm Gear Assembly from the Loading Motor Assembly by pushing it.

* NOTE

- 1) When reassembling
- ① Make sure that the worm assembly is seated in the axis of Loading Motor.
- ② Two grooves(G) of Loading Motor should be turned up and two projections(F) of Bracket Assembly should be seated in each at the two holes(E)(Fig. B-6-1).
- 3 Take notice of the polarity of the Loading Motor

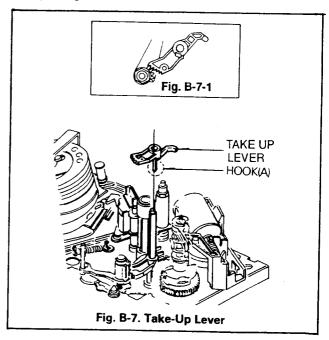




- 1) Remove the Loading Motor Assembly.
- 2) Remove the Dew Bracket(Fig. B-5).
- 3) Remove the Pinch Lever Assembly(Fig. B-5).
- 4) Keep the Pinch Gear turned in the clockwise direction
- Remove the Take-Up Lever by pushing the hook(A) cutward.

* NOTE

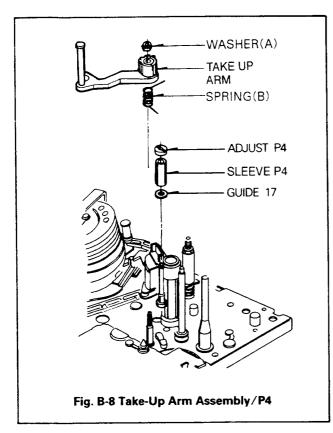
- 1) When disassembling and reassembling
- ① When disassembling the Take-Up Lever, be careful not to break the Hook(A).
- ② When reassemble the Take-Up Lever, align the appendant Gear of Lever Take-Up with the appendant Gear of Takeup Arm
- (3) Reassemble the Take-Up Lever completely by hooking
- (4) Be sure to replace together Take-Up Lever and Pinch
- (5) Be sure to assemble Pinch Lever Assembly before operating.



8. Take Up Arm Assembly(Fig. B-8)

- 1) Remove the Loading Motor Assembly.
- Remove the Dew Bracket, Pinch Gear, and the Take-Up Lever.
- Remove one Washer(A).
- Remove the Take-Up Arm Assembly by lifting it up.
- 5) Remove the spring(B).

- 1) When reassembling
- ① Align the Gear of Take-Up Arm with the Gear of Take-Up Lever(Fig. B-7-1).

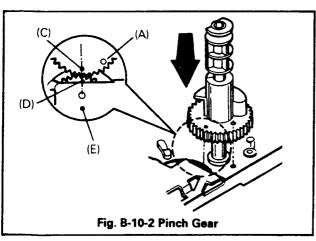


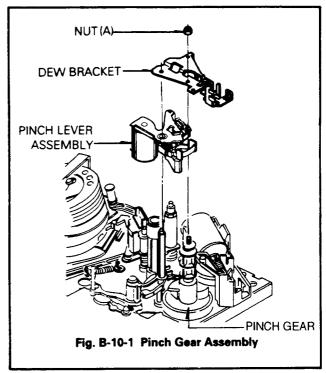
9. P4 Assembly(Fig. B-8)

- 1) Remove the Adjust P4.
- 2) Remove the Sleeve P4.
- 3) Remove the Guide 17.

10. Pinch Gear(Fig. B-10-1, B-10-2)

- 1) Remove the Loading Motor Assembly.
- Remove one Nut(A) and then remove the Dew Bracket (Fig. B-5).
- 3) Remove the Pinch Lever Assembly by lifting it up(Fig. B-5)
- 4) Keep the Pinch Gear turned in the clockwise direction (180°)
- 5) Remove the Take-Up Lever by pushing the hook(A) outward(Fig. B-7).
- 6) Keep the Pinch Gear turned in the counterclockwise direction (180°).
- 7) Remove the Pinch Gear Assembly.





NOTE

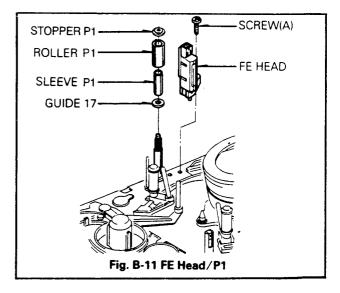
- 1) When reassembling, align the hole(A) of Pinch Gear with the hole of chassis, and the hole(C) of Pinch Gear with the groove(D) of the P.C.Gear. Hole(E) of chassis should be aligned with the hole of P.C.Gear.
- 2) Be sure to replace together Take-Up Lever and Pinch Gear.
- 3) Be sure to assemble Pinch Lever Assembly before operating.

11. FE(Full Erase) Head Assembly(Fig. B-11) (Optional Item)

- 1) Unplug the connector.
- 2) Remove one screw(A), and then remove the FE Head.

NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.



12. P1 Assembly(Fig. B-11)

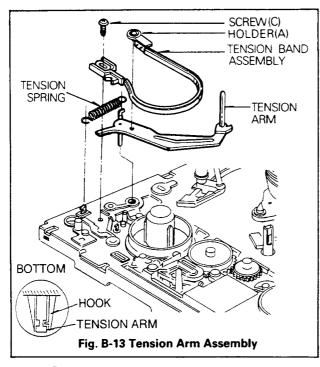
- 1) Remove the Stopper P1.
- 2) Remove the Roller P1.
- 3) Remove the Sleeve P1.
- 4) Remove the Guide 17.

13. Tension Arm Assembly(Fig. B-13)

- 1) Remove one screw(C).
- 2) Remove the Tension Spring.
- Remove the Tension Arm Assembly by pushing hooks outward with the Deck Mechanism Assembly turned over.
- 4) Remove the Tension Band Assembly from the Tension Arm by pushing Hooks of Holder(A).

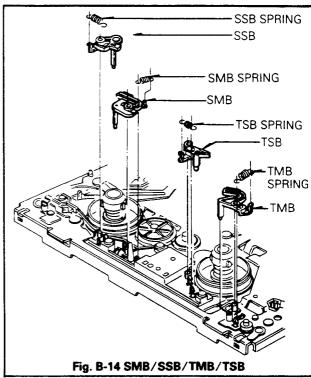
NOTE

 When disasembling and reassembling, give special attention to the disassembling and reassembling of Tension Arm Assembly, because the Tension Band is interposed between the Supply Reel and the Soft Brake.



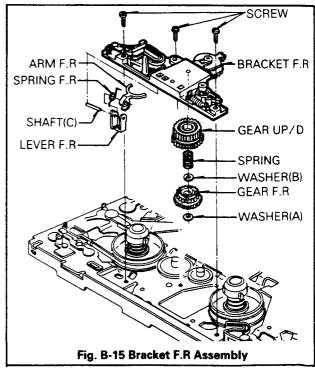
Supply Soft/Supply Main/Take-Up Soft/Take-Up Main Brake Assembly

- 1) Supply Soft Brake(SSB)
 - ① Remove the SSB Spring.
 - ② Remove the SSB.
- 2) Supply Main Brake(SMB)
 - ① Remove the SMB Spring.
 - 2 Remove the SMB.
- 3) Take Up Soft Brake(TSB)
 - ① Remove the TSB Spring.
 - ② Remove the TSB.
- 4) Take-Up Main Brake(TMB)
 - ① Remove the TMB Spring.
 - ② Remove the TMB.



Bracket F/R(FF/Rewind) Assembly (Fig. B-15)

- 1) Remove the TMB.
- 2) Remove the Washer(A), and then remove the Gear F.R.
- Remove three screws, and then remove Bracket F/R Assembly from the Deck Mechanism Assembly.
- 4) Remove the Washer(B), and spring Up/D, and then remove the Gear Up/D.
- 5) Remove the shaft(C), and then remove the Arm F.R, Lever F.R and Spring F.R.



16. Supply Reel Assembly(Fig. B-16)

- 1) Remove the Tension Band Assembly.
- 2) Remove the Bracket F/R.
- Lift up the Supply Reel Assembly from the Deck Mechanism Assembly.

17. Take Up Reel Assembly(Fig. B-16)

- 1) Remove the TMB(Fig. B-14)
- 2) Lift up the Take-up Reel Assembly from the Deck Mechanism Assembly.

* NOTE

- 1) When reassembling
- Make sure that the Supply and Take Up Reel are not exchanged.
- ② After reinstalling the Supply Reel Assembly, Adjust the Tension.

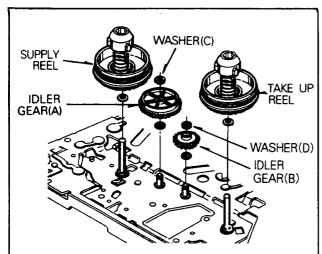


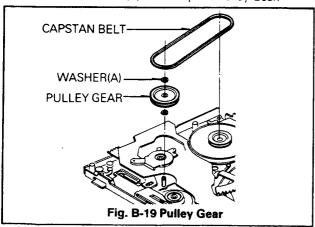
Fig. B-16 Supply Reel Assembly/Take-Up Reel Assembly

18. Idler Gear(A), (B)(Fig. B-16)

- 1) After removing the Supply Reel and supply Main Brake Assembly, remove the washer(C) and then remove the Idler Gear(A).
- 2) Remove the Washer(D) and remove the Idler Gear(B).

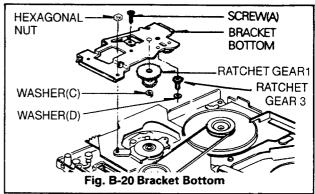
19. Pulley Gear Assembly (Fig. B-19)

- 1) Turn over the Deck Mechanism Assembly.
- 2) Remove the Capstan Belt.
- 3) Remove the Washer(A) and lift up the Pulley Gear.



20. Bracket Bottom Assembly (Fig. B-20)

- 1) Remove one screw(A).
- 2) Remove one Hexagonal Nut, and then lift up the Bracket Bottom Assembly.
- 3) Remove one Washer(C), and lift up the Ratchet Gear 1.
- Remove the washer(D), and then remove Ratchet Gear 3 from the Bracket Bottom.

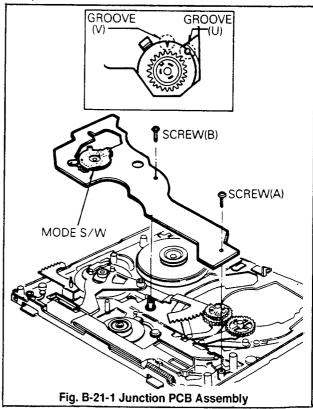


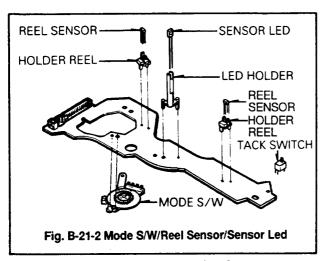
21. Junction PCB(Printed Circuit Board) Assembly(Fig. B-21-1)

- 1) Remove the Bracket Bottom Assembly.
- 2) Remove two screws(A), (B) and then remove the Junction P.C.B Assembly.
- Remove the Mode Switch from the Junction P.C.B Assembly.
- 4) Remove the Reel Sensor, Sensor LEDS and each holder from the Junction P.C.B(Fig. B-21-2).

* NOTE

 When reassembling the Mode Switch, the groove(V) and (U) of Mode Switch should be at their original place in the Eject Mode.



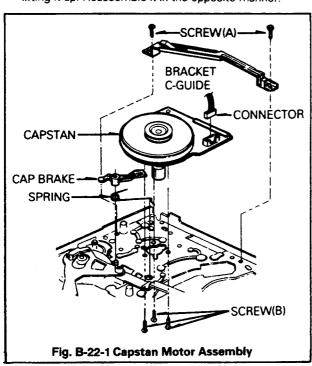


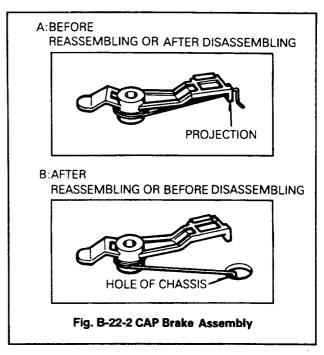
22. Capstan Motor and Brake Assembly (Fig. B-22-1)

- 1) Remove the Junction P.C.B Assembly
- Hook the end of Capstan Brake Spring to the projection of Capstan Brake and then remove the Capstan Brake Assembly by lifting it up (Fig. B-22-2).
- 3) Remove two Screws(A), and then remove the Bracket C-Guide.
- 4) Remove the Connector.
- 5) Remove three screws(B), and then remove the Capstan Motor Assembly from the Deck Mechanism Assembly.

* NOTE

 When disassembling and reassembling, hook end of the spring on the projection of Cap-Brake and remove it by lifting it up. Reassemble it in the opposite manner.



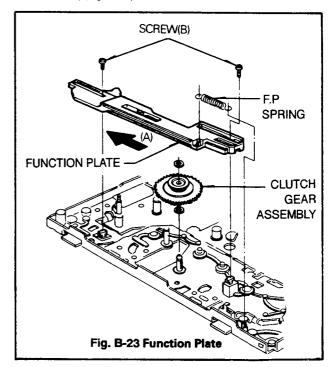


23. Function Plate(Fig. B-23)

- 1) Remove two screws(B) in Eject Mode.
- 2) Remove the Function Plate Spring.
- 3) Push the Function Plate in the direction of arrow(A) and then lift it up.

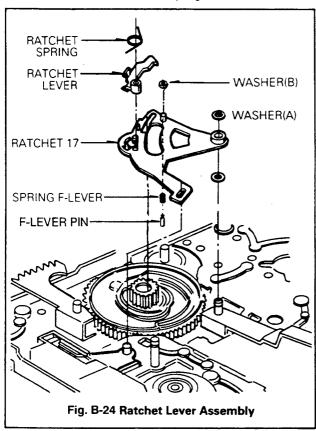
* NOTE

 When reassembling the groove of Lower part of Function Plate should be aligned with the shaft of Tension Lever Assembly (Fig. B-29).



24. Ratchet Lever Assembly(Fig. B-24)

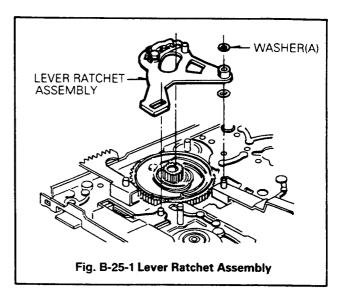
- 1) Remove the Function Plate.
- 2) Remove the Junction P.C.B Assembly.
- 3) Remove the Washer(A) and then remove the Ratchet Lever Assembly.
- 4) Remove the Ratchet Spring.
- 5) Remove the Ratchet Lever from the Ratchet 17 by lifting it up when the hook of it is aligned with the hole of Ratchet 17 while rotating it counterclockwise direction.
- 6) Remove the Washer(B), and turn over the Ratchet 17 and then remove the F-Lever Pin, Spring F-Lever.

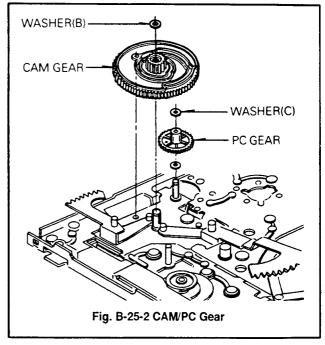


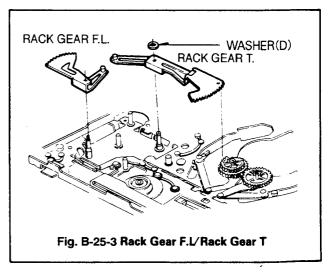
25. Cam Gear/Rack Gear T/Rack Gear FL (Fig. B-25-2)

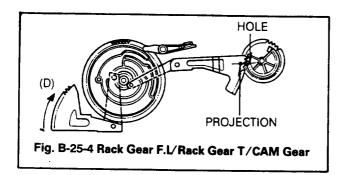
- Remove the washer(A) and remove the Ratchet Lever Assembly. (Fig. B-25-1).
- Remove the washer(B), and then remove the Cam Gear (Fig. B-25-2).
- 3) Remove the Rack Gear F.L. (Fig B-25-3).
- 4) Remove the Washer(D).(Fig. B-25-3).
- 5) Remove the Rack Gear T.(Fig. B-25-3).

- 1) When reassembling
- Align the Projection of Rack Gear T with the hole of Loading Gear.
- ② Drive the Rack Gear F.L in the direction of arrow(D).
- ③ Hole of Cam should be aligned with the hole of chassis, and the groove(■) of Cam Gear should be aligned with the hole of PC Gear (Fig. B-26).







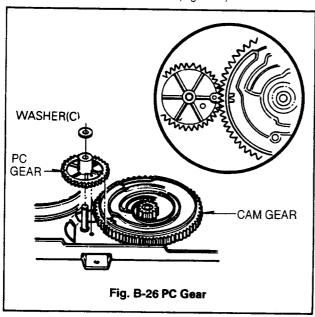


26. PC Gear(Fig. B-26)

- 1) Remove the washer(C).
- 2) Remove the P.C Gear by lifting it up.

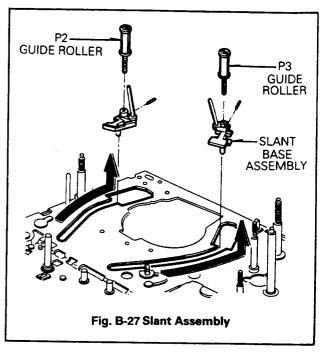
* NOTE

- 1) When reassembling
- The Groove of PC Gear should be aligned with the groove(V) of Cam Gear, and another hole of it should be aligned with the hole of chassis (Fig. B-26).



27. P2 and P3 Slant Assembly (Fig. B-27)

- After finishing the disassembly of Drum Assembly, remove the P2 and P3 Slant Assembly by turning the Loading Gear(R) in the clockwise direction. (Loading direction)
- 2) Loosen the set screws.
- 3) Remove the Roller Guide from the Slant Base.



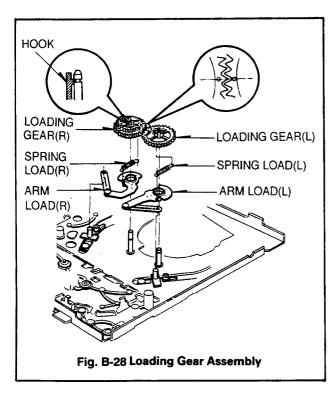
* NOTE

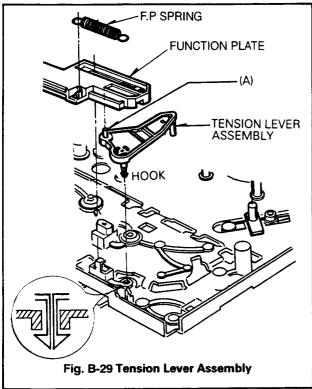
- 1) When disassembling and reassembling
- ① Use a Hexagonal wrench to remove set screw.
- ② Take notice that the P2 and P3 Slant Assembly should not be changed from their original place.

28. Loading Gear Assembly(L),(R) (Fig. B-28)

- 1) Remove the Cam Gear, Rack-T.
- 2) Remove the P2 and P3 Slant Assembly by turning the Loading Gear(L),(R) in the Loading direction
- 3) Lift up the Loading Gear Assembly(L),(R) from the Deck Mechanism Assembly.
- 4) Remove the Spring Load(L),(R).
- 5) Separate the Loading Gear(L), (R) from Arm Load(L), (R).

- 1) When reassembling
- Make sure that the Loading Gear(L) and (R) should not be changed from their original place.
- ② Align the groove of Loading Gear(L),(O) with the groove of Gear(R),(O).





29. Tension Lever Assembly (Fig. B-29)

- 1) Remove the Function Plate.
- 2) Remove the Tension Lever Assembly by pushing hooks inward.

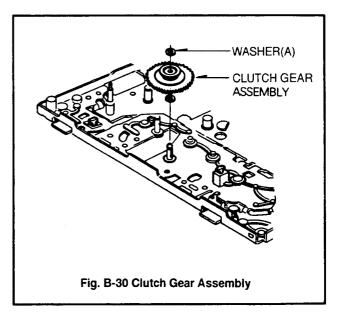
* NOTE

- 1) When reassembling
- ① Set the part(A) of Tension Lever Assembly in the groove of Lower part of Function Plate.

30. Clutch Gear Assembly (Fig. B-30)

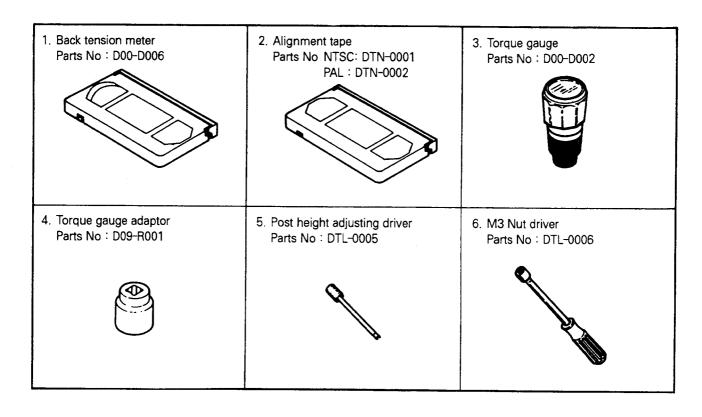
- 1) Remove the Pulley Gear.
- 2) Remove the Plate Function.
- 3) Remove the washer(A), and then remove the Clutch Gear Assembly.

- 1) When reassembling
- ① Do not disassemble the Clutch Gear Assembly any futher, because Torque adjustment is not adjustible.



MECHANISM ADJUSTMENTS

• Tools and Fixtures for Deck



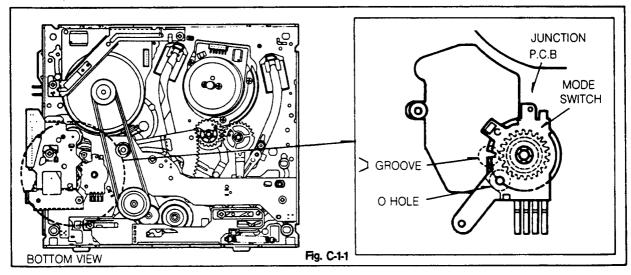
1. Mechanism State Switch (Mode Switch) Check

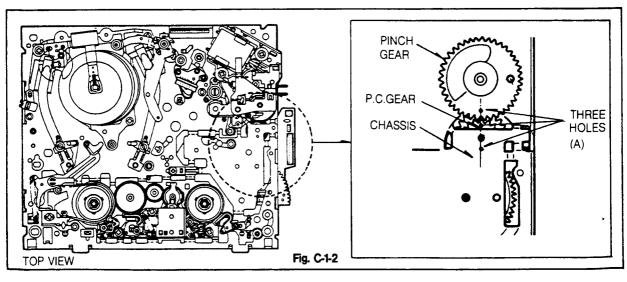
arpose: To detect accurately the mec	hanism state and prevent the mechanism	from malfunction.
Test Equipment/Fixture	VCR State	Check Point
●Blank tape	● Eject Mode (with cassette ejected)	 Mechanism state switch (Mode Switch and Cam)

Check Procedure

- 1) Turn the VCR on and eject the tape by pressing eject button.
- Remove the Cabinet Top, the Main P.C.Board and the CST Housing. Then push the CST IN/OUT switch (Loca. #137) and eject button at the same time.
- 3) Turn the worm (Loca. #082) of Loading Motor Assembly (Loca. #A10) to the left side (counterclockwise) to align the three holes (A) of the Pinch Gear, the P.C.Gear and the Chassis.
- 4) Remove the Bottom Cover and then check that the groove (V) and the hole (O) of Mode S/W are aligned each other. If the above alignment is not obtained, adjust as follows.
 - (1) Remove the Bracket Assembly Bottom and the Capstan Belt in the state of power off.
 - (2) Remove the P.C.B Assembly, align the groove (V) and the hole (O) of Mode S/W each other and then reassemble the P.C.B Assembly.
 - (3) Turn the power on and perform the various operations to check that the loading and the unloading are correct.

Check Diagram





2. Preparation for Adjustment(To set VCR to the loading state without inserting a cassette)

- 1) Unplug the power cord from the AC outlet.
- 2) Remove the Cabinet Top and Front Loading mechanism.
- 3) Plug the power cord into the AC outlet.
- 4) Turn the VCR on and push the tact switch in the PCB Assembly.

The VCR can accept input of each mode in this case. However the rewind and review operation cannot be performed for more than a few seconds because the take-up reel table is in the stop state and reel pulses cannot be detected.

(NOTE)

Always return the VCR to the Front Loading Mechanism Assembling State in the following order after the above operations have been performed.

- 1) Press the Eject button after turning the power on.
- 2) Wait for about 10 seconds until searching out the assembly position.
- 3) Assemble the Front Loading Mechanism and connect the Front Loading Mechanism Connector.
- 4) Refer to the "Front Loading Mechanism Disassembly" which is described previously.

3. Tension Post Position and Tension Adjustment

Purpose: To make the tension of tape constant so that the contact between the video heads and tape is stabilized.

Test Equipment/Fixture	VCR State	Adjustment Point
● Tension Meter (Tension adjustment)	Play without cassette and with a Tension Meter	● Holder Band(B)

Adjustment Procedures

(Position Adjustment)

- Perform loading without inserting a tape and loosen the screw that attaches the Holder Band(B) to the Deck Mechanism Assembly.
- Insert the (-)type driver between the Holder Band(B) and the "V" groove of the chassis.
- Move the Holder Band(B) right and left and align the center of tension post(Guide T-Post) with the center of P1(Shaft P1).(tolerance:Less than ±0.3mm)
- 4) Tighten the screw that attaches the Holder Band(B) to Deck Mechanism Assembly.

(Tension Adjustment)

- 1) Play the Tension Meter and read the Tension Meter: 38q•cm±4g•cm(reference value).
- 2) If the result is abnormal.
 - over the standard:loosen the screw, move the Holder Band(B) to the right a little and then tighten the screw and make sure that this adjustment is correct.

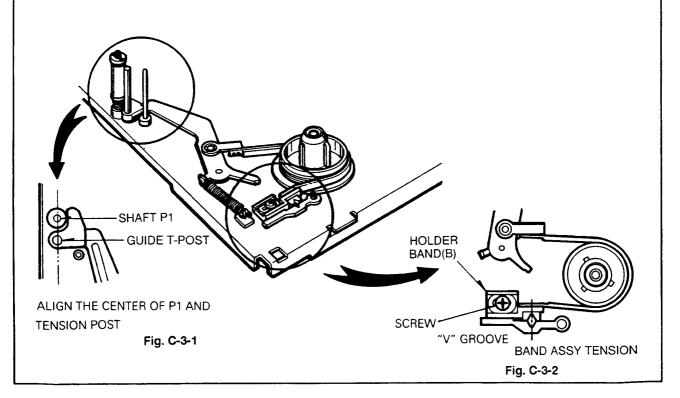
(2) below the standard:loosen the screw, move the Holder Band(B) to the left a little and then tighten the screw and make sure that this adjustment is correct.

CAUTION

The range of movement of Holder Band(B) should be within ± 1.5 mm while being adjusted.

If the range is over, you should recheck the Reel Brake, Tension Arm and Spring.

Adjustment Diagram



4. Checking Torque

Purpose: It is necessary to check the tension, torque and compression force at the tape take-up section and moving section to make the tape run smoothly and satisfy the basic performance of the VCR. Check these if the tape does not run smoothly or the tape speed is abnormal.

Test Equipment/Fixture	VCR state
 Torque Gauge Torque Gauge Adaptor Cassette Torque Meter SRK-VHT-063: Play, Cue SRK-VHT-303: Review 	 Set the VCR to each operation mode without inserting a cassette. (See '2 Preparation for Adjustment')

Item	VCR Operation mode	Measurement Reel	Measurement Values
Main brake torque,	Eject	Supply and take-up reels	600g.cm or more
Slack removal torque	Unloading(power off)	Supply reel	120~220g·cm
Fast forward torque	Fast forward	Take-up reel	600g·cm or more
Rewind torque	Rewind	Supply reel	600g-cm or more
Play take-up torque	Play	Take-Up reel	90~150g·cm
Review Torque	Review	Supply Reel	120~180 g.cm
CUE Torque	Cue	Take-Up Reel	110~170 g.cm

Checking Method

The values are measured by using a torque gauge and torque gauge adaptor with the torque gauge fixed.

Note: This value is measured when the VCR is shifted in the unloading direction from the fast forward or rewind mode and quick braking is applied to both Reel Tables.

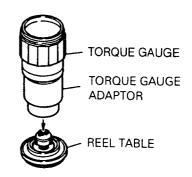


Fig. C-4

5. Guide Roller Height Adjustment

Purpose: To regulate the height of tape so that the bottom of tape runs along the tape guide line on the lower drum.

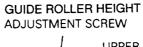
A. Preliminary Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
Hexagonal Wrench or BendedDrive (+) Type	● Play an alignment tape	 Guide Roller Height Adjustment Screws on the Supply and Take-Up.
 Post Height Adjusting Driver 		Guide Rollers.

Adjustment Procedure

- 1) Perform the precise adjustment.
- 2) When the Guide Roller is damaged release the Guide Roller retaining screw and then replace the Guide Roller.

Adjustment Diagram



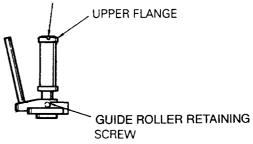


Fig. C-5-1

B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Point
 Oscilloscope Post Height Adjusting Driver Alignment Tape(30HMP-2) Hexagonal wrench 	● CH-1:PB RF Envelope ● CH-2 /NTSC: SW30Hz \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	● Play an alignment tape	 Guide Roller Height Adjustment Screws.

Adjustment Procedure

- 1) Play an alignment tape after connecting the probe of the oscilloscope to RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking control(in PB mode): Center position(When this adjustment is performed after the drum assembly has been replaced, set the tracking control so that the RF output is maximum.)
- 3) Height adjustment screw: Flatten the RF waveform.
- 4) Turn(Move) the tracking control(playback) clockwise and counterclockwise.(to the right and left)
- 5) Check that any drop of RF output is uniform at the start and end of the waveform.

CAUTION

If the adjustment is excessive or insufficient the tape is jammed or folded.

Waveform Diagrams

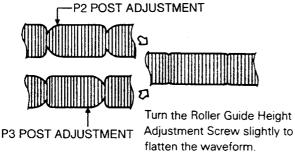


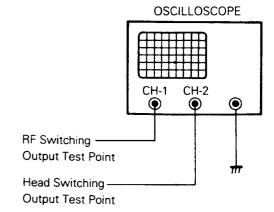
Fig. C-5-2



Tracking control at center Turn(Move) the tracking control to both directions.

Fig. C-5-3

Connection Diagram



6. Audio/Control(A/C) Head Adjustment

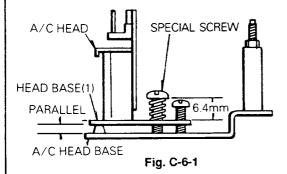
Purpose: To keep the contact between the tape and head so that the specificed track is recorded and played back.

A. Preliminary Adjustment (Perform the preliminary adjustment, when there is no Audio Output signal with alignment tape.)

Test Equipment/Fixture	VCR State	Adjustment Points
● M3 Nut Driver		Special screwCone Point Screw for tiltAzimuth AdjustmentScrew
Blank tape	● Run the blank tape	● A / C Head Adjuster

Adjustment procedure/Adjustment Diagram

 Tighten the special screw so that the spring section protrudes 6.4mm(approx.) over the top of Head Base (1).



2) Turn the Azimuth Adjustment Screw and Cone Point Screw so that the Head Base(1) and A/C Head Base are parallel.

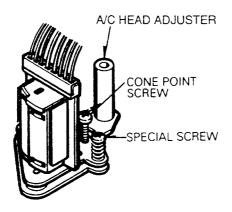
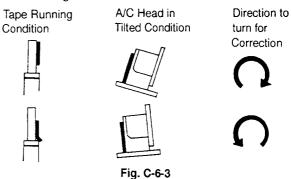


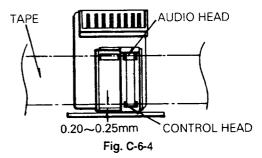
Fig. C-6-2

Load a blank tape and set the VCR to the play mode.

- 4) Confirm that the tape runs fittingly to the lower limit of the P4 post. Also confirm that the tape runs smoothly.
- 5) If adjustment is required, turn Cone Point Screw clockwise until curling is apparent at the lower edge of P4. Then turn Cone Point Screw counterclockwise until the curling smooths out.



6) Check that there is no conspicuous curling and folding around the A/C head. If there is conspicuous curling or folding, readjust the Cone Point Screw, Azimuth Adjustment Screw and A/C Head Adjuster. When the bottom edge of tape is 0.20~0.25mm from the bottom edge of the control head's core, the height of A/C head is ideal.

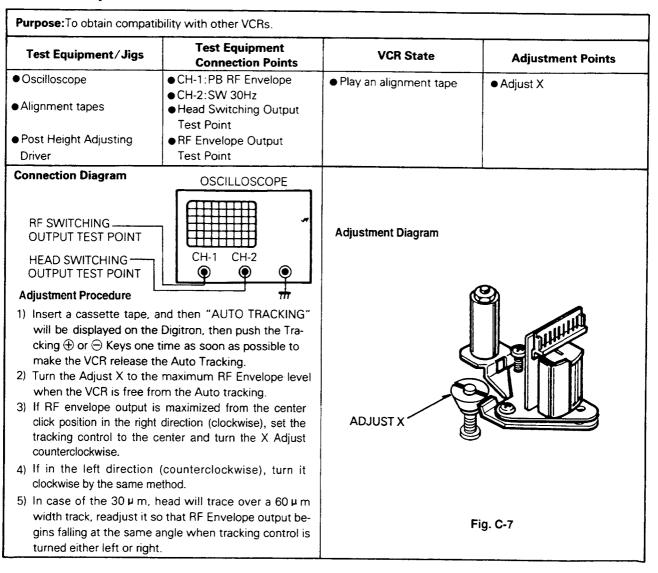


7) If necessary repeat steps 1 through 4 until a precise adjustment is achieved.

B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Point	VCR State	Adjustment Points
OscilloscopeAlignment tapesM3 Nut Driver	● Audio output jack	● Play an alignment tape 1KHz, 7KHz sections	 Azimuth Adjustment Screw A/C Head adjuster Cone point screw
jack. 2) Adjust the Azimuth Adjuster and cone point so that an Audio 1KHz cominimum fluctuation). 3) Adjust the Azimuth Adjust	crew slightly and alternately putput is maximum and flat.	Waveform Diagram	B - B
alternately so that the Au	dio 7KHz output is maximum.	A:Maximum	BB':Minimum

7. X-Value Adjustment



8. Adjustment after Replacing Drum Assembly(Video Heads)

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Points
 Oscilloscope Post Height Adjusting Driver Alignment tape Blank tape M3 Nut Driver 	Checking the flatness CH-1:PB RF Envelope CH-2 (NTSC: SW30Hz PAL: SW25Hz Head Switching Output Point RF Envelope Output Point	● Run the blank tape ● Play an alignment tape	 Guide Rollers Precise Adjustment Switching point Tracking point X-Value
Connection Diagram		Waveform Diagram	1
RF SWITCHING ————————————————————————————————————	OSCILLOSCOPE O O O	V ₁	
Checking/Adjustment Procedure 1) Run the blank tape, check and adjust whether the Roller Guide is curling or creasing tape around the Roller Guide		V₁/V MAX V₂/V MAX RF ENVELC	
 Check the RF envelope Roller Guide Height whil Adjust the head switchir Check that RF envelope 	output is maximum when the		
tracking is at the initial po	sition. set and X-Value Adjust with X	F	ig. C-8

9. Check of Tape Travel after reassembling Deck Assembly

9-1. Check Audio and RF Locking Time during playback after CUE or REV.

Test Equipment/Fixture	Specification	Test Equipment Connection Point	VCR State
 Oscilloscope Alignment tape (with 6H 3kHz Color Bar Signal) Stop Watch 	RF Locking Time: Less than 5 sec. Audio Locking Time: Less than 10 sec.	 CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack 	 Play an alignment tape (with 6H 3kHz Color Bar Signal)

- Change the mode of CUE or REV to play.
 At this time, confirm that the Locking Time of Audio and RF Output Waveform fits to specification.
- 3) If the results checked above are abnormal, reapeat adjustments 4 through 8.

* 6H:LP

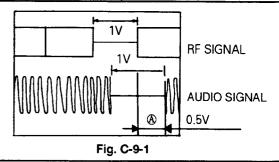
Adjust.

9-2. Check the coincidence of both Audio and Video Sync.(Lip Sync.)

Test Equipment/Fixture	Specification	Test Equipment Connection Point	VCR State
 Oscilloscope 2H 9V Tape(for X-Value Adjustment Coincidence) or alignment tape 	●Less than ±0.5V	 CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack 	● Play a 2H 9V tape or an alignment tape.

Checking Procedure

- 1) Confirm that the period A of Fig. C-9-1 is within ± 0.5 V.
- If the result is abnormal, repeat adjustment #7. (X-Value adjustment).



* 2H: SP, V: Vertical

9-3. Check the occurance of tape curl and jam

Test Equipment/Fixture	Specification	VCR State
● T-160 Tape ● T-120 Tape	Be sure there is no jam or curl at the beginning, the middle period or the end of the T-160 tape.	 Run the CUE, REV play mode at the beginning and the end of the tape.

Checking Procedure

- Confirm whether the state of each transportation post is normal.
- 2) Make sure nothing is wrong with the operation of the Counter, when the lower part of tape is folded.
- 3) Be sure there is nothing wrong in the Audio signal, when the upper part of tape is folded.
- 4) If the result is abnormal, repeat adjustment #5 and #6.

9-4. Check the adjustment state of Take-Up Guide

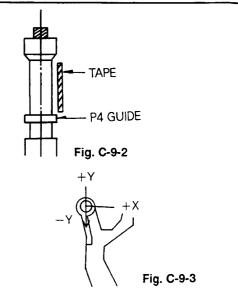
Test Equipment/Fixture	Specification
T-120 TapeTake-Up Guide Adjusting Driver	 Review: Travel the tape that align the top of the P4 Guide and the bottom of the Tape or be folded. Play: Travel the tape that align the top of the P4 Guide and the bottom of the Tape.

Checking Procedure

- 1) Run the CUE or PLAY mode at the middle period or the end of the T-120 tape.
- 2) Run the REV mode at the play or cue part of tape.
- 3) At this time, confirm that the change of tape height at the P4 Guide fits to specification.
- 4) If the result is abnormal, refer to Table 9-1.
- 5) Play the beginning of T-120 tape(within 5 min.)
- Confirm that the state of tape transportation fit to specification in P4 Guide.
- Remove the Tension Arm Assembly by rotating in the clockwise direction and then confirm that the state of tape transportation fit to specification.
- 8) If the result is abnormal, refer to Table 9-1.

PLAY Mode	REV Mode	Adjustment Method
Tape Falling	Tape Lift	Bend the shaft of the direction +Y.
Tape Lift	Tape Falling	Bend the shaft of the direction -Y.

Table 9-1



10. Maintenance/Inspection Procedure

(1) Required Maintenance

The recording density of a VCR is much higher than that of an audio tape recorder. VCR components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, are necessary.

(2) Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR, and the environment in which the VCR is used.

But, in general home use, a good picture will be maintained if the inspection and maintenance is made every 1,000hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used	About 1 year	About 18 months	About 3 years
per day			
One hour			
Two hours	///////		
Three hours	<u> </u>		-

(3) Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for in spection and maintenance. Check the following parts.

Table 2

Phenomenon	Inspection
Poor S/N, no color	Dirt on video head or
	worn video head
Tape does not run or tape	Dirt on pressure roller, belt
is slack	or flywheel belt
Vertical jitter, horizontal	Dirt on video head or in
jitter	tape transport system
Color beats	Dirt on full-erase head
Low volume or sound	Dirt on audio/control head
distorted	
Fast forward or rewind is	Dirt on belt
not done or rotation is	
slow	

(4) Supplies Required for Inspection and Maintenance

- (1) Greases Kanto G-31(or equivalent)
- (2) Alcohol(Isopropyi Alcohol)
- (3) Cleaning Patches

5) Maintenance Procedure

5-1) Cleaning

(1) Cleaning video head

First use a cleaning tape. If dirt on head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with alcohol(Isopropyl Alcohol) to the point indicated. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically and make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run test tape. If alcohol (Isopropyl Alcohol) remains on the video head, the tape may be damaged when it comes into contact with the head surface.

(2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with alcohol (Isopropyl Alcohol).

Note:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which move the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no force is applied to the system that would cause deforming.

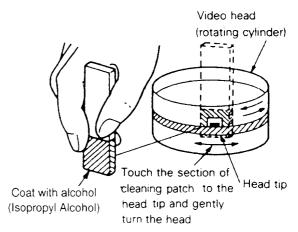


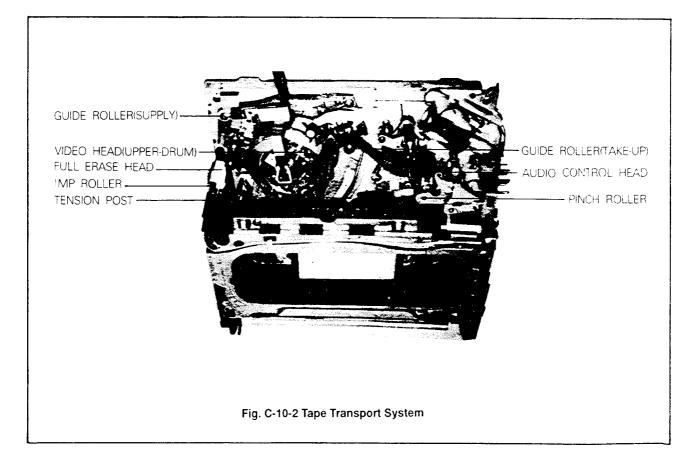
Fig. C-10-1

5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport of drive system. Wipe any excess and clean with cleaning patch wetted in alcohol(Isopropyl Alcohol).

(2) Periodic greasing
Grease specified locations every 5,000hours.



C 1 1						/	
Color beats	Dirt on full-erase head	0	- ①	©			
Poor S/N no color	Dirt on video head	0] → ②	O			
Vertical jitter	Dirt on video head Dirt in tape transport system	0] → ③	©—			
Low volume, Sound distorted	Dirt on audio/control head	٥	→ ④				
Tape does not run. Tape is slack	Dirt on pinch roller	္	→ ⑤	O ************************************			

Fig. A-11 Top View of Mechanism

Phenomenon	Inspection Location	Replace ment	© -		
Do not fast forward or rewind, or rotation is slow Tape does not run Slack tape	Dirt on reel belt	° → ®	©-		6
			©—		

Fig. A-12 Bottom View of Mechanism

Note: If locations marked with ○ do not operate normally after cleaning, check for wear and replace.

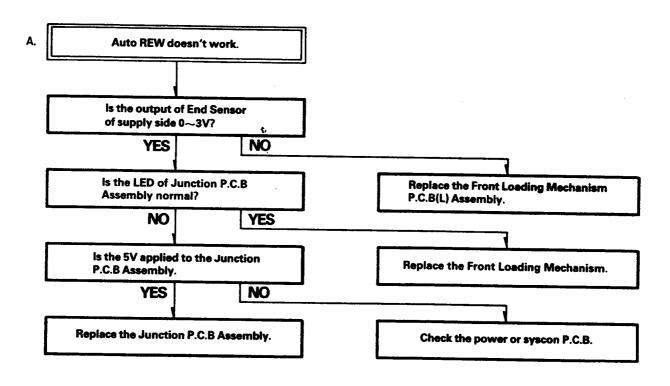
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations for the sections to be lubricated and greased.

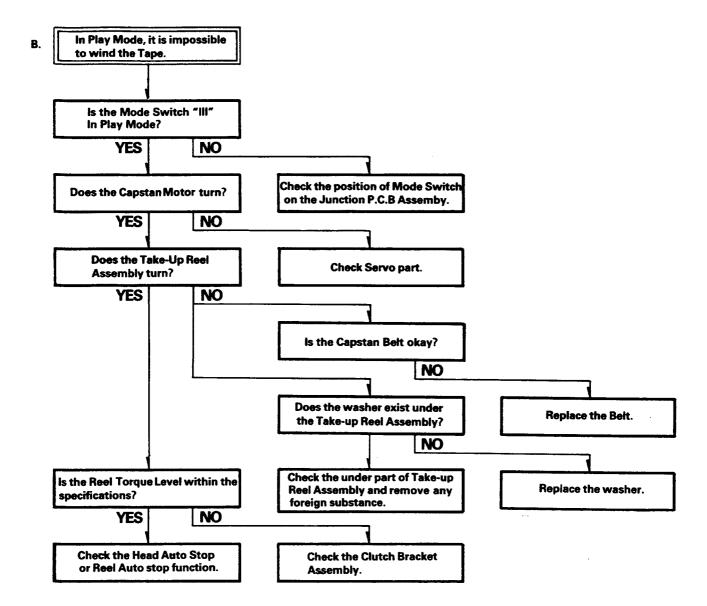
©:Grease

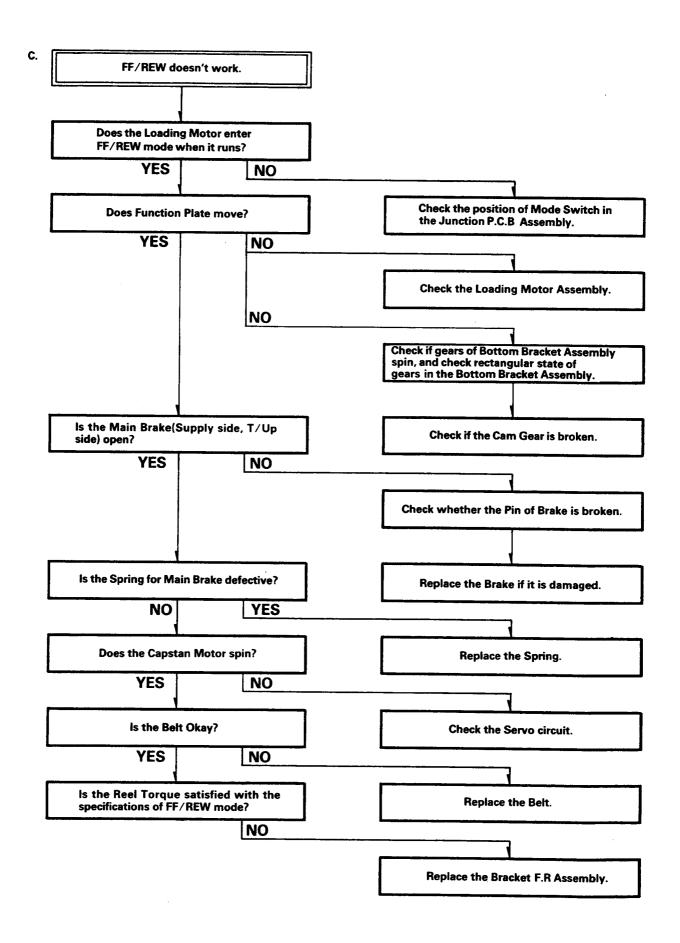
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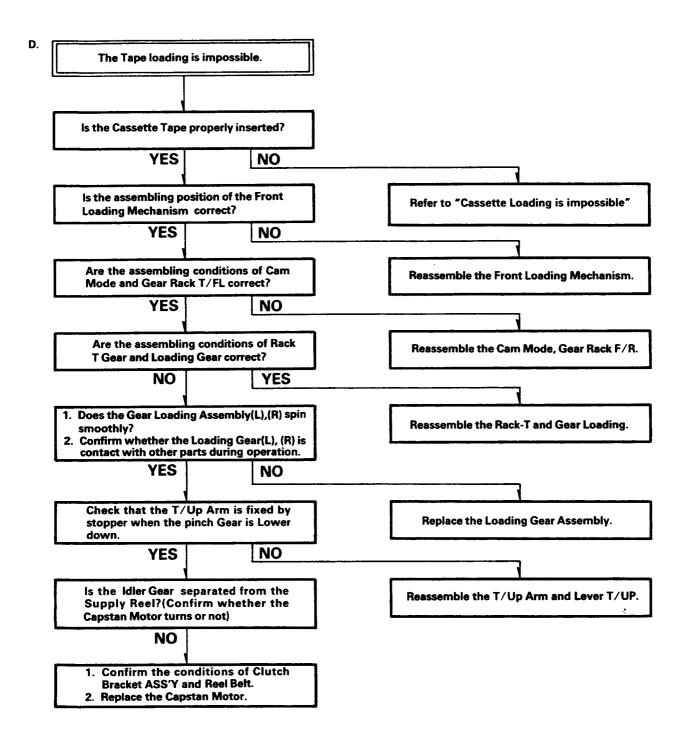
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

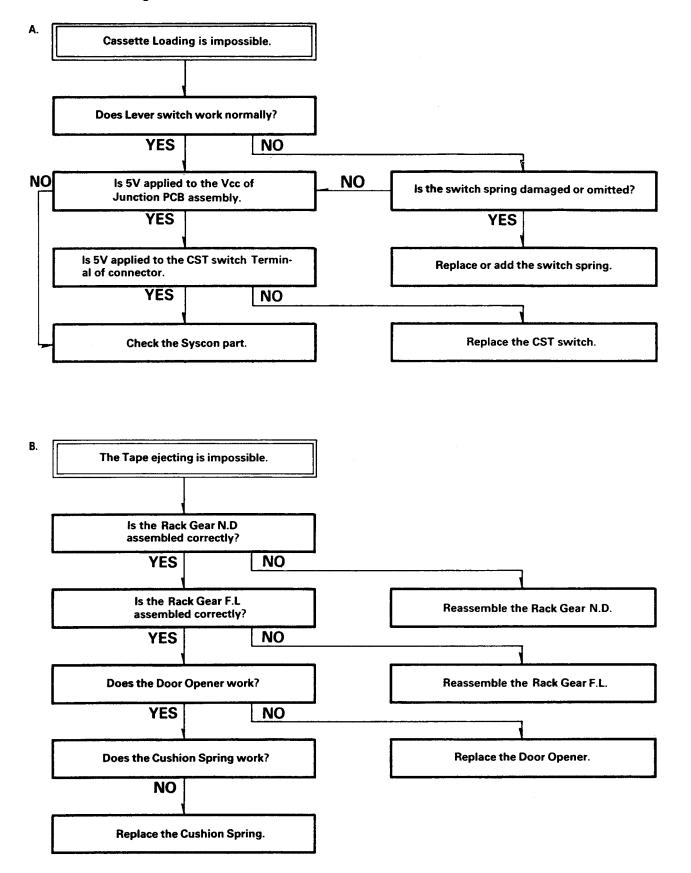


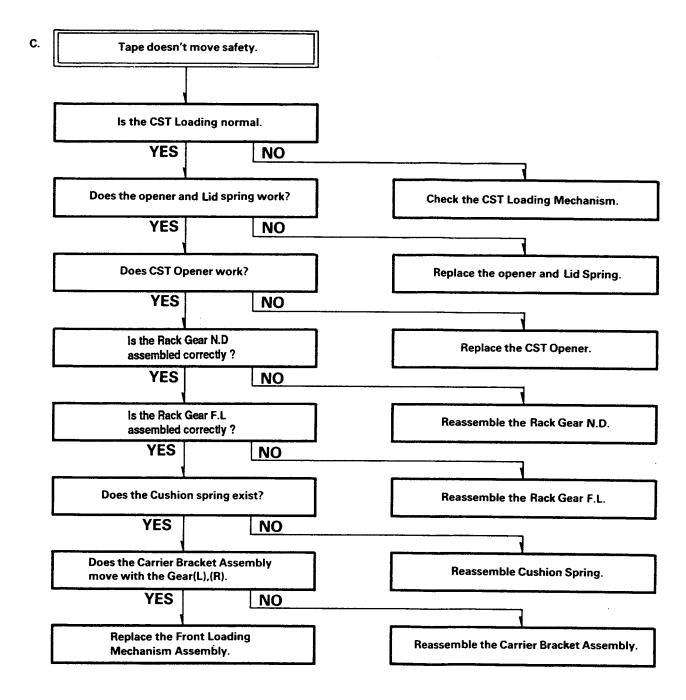


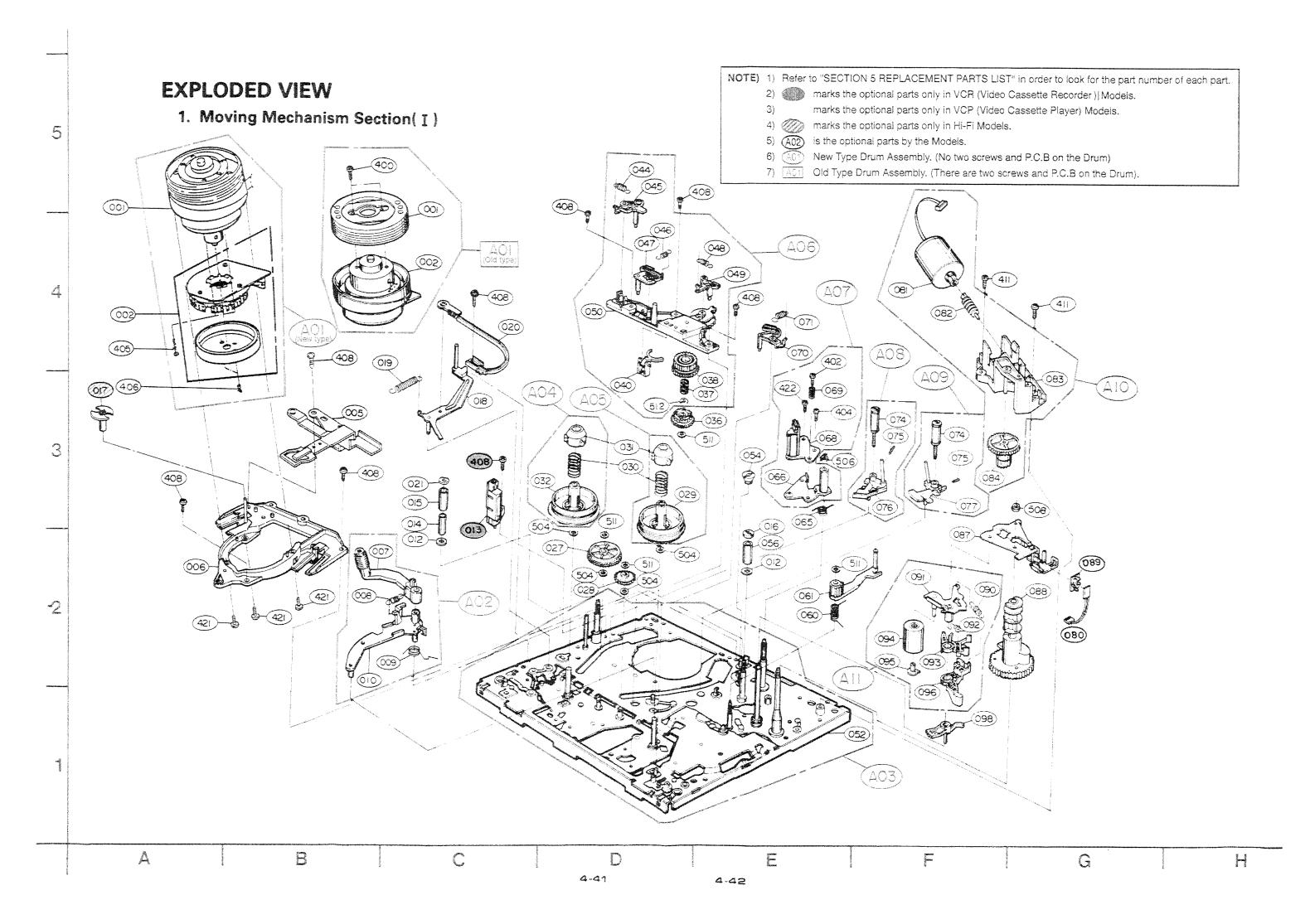


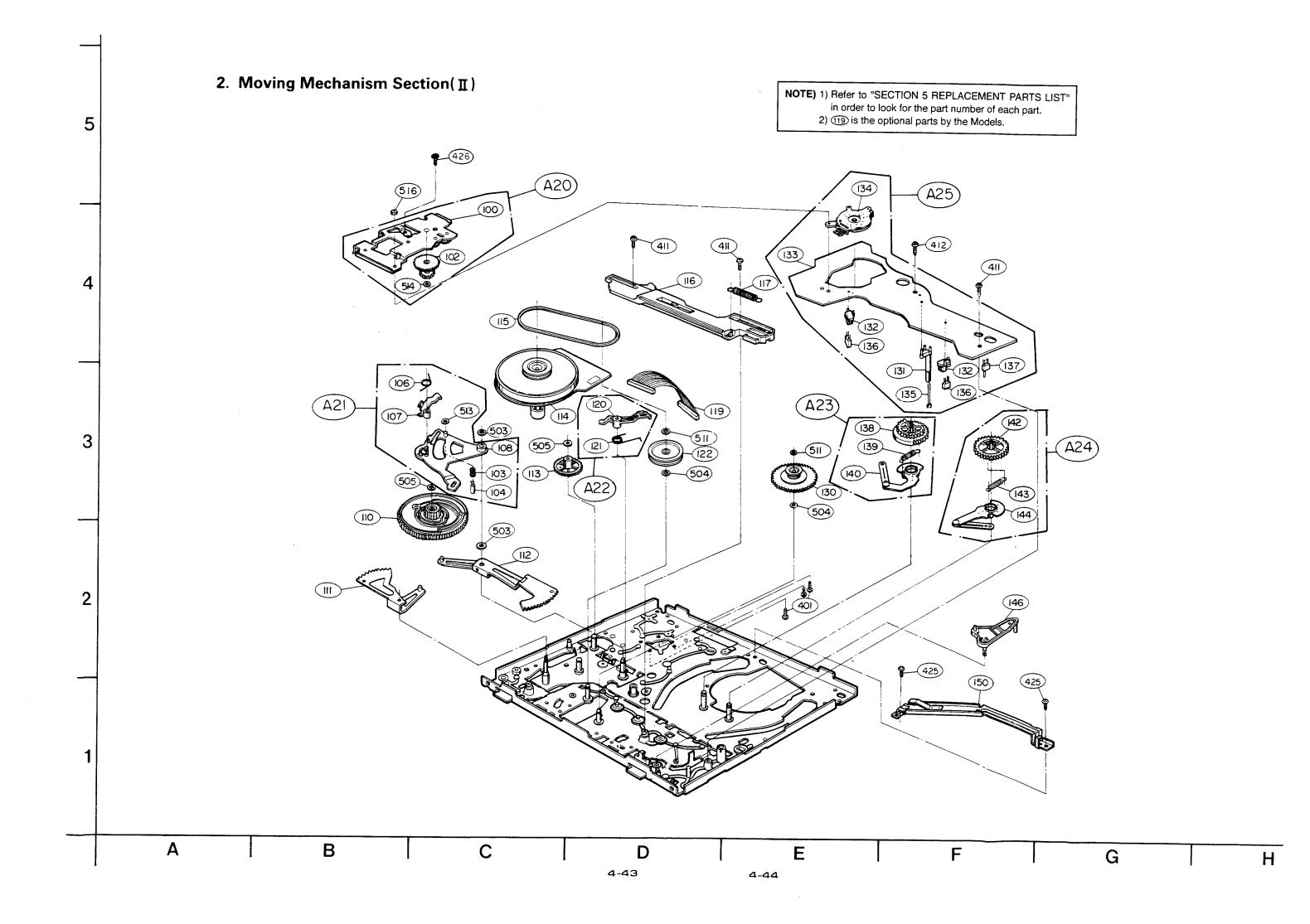


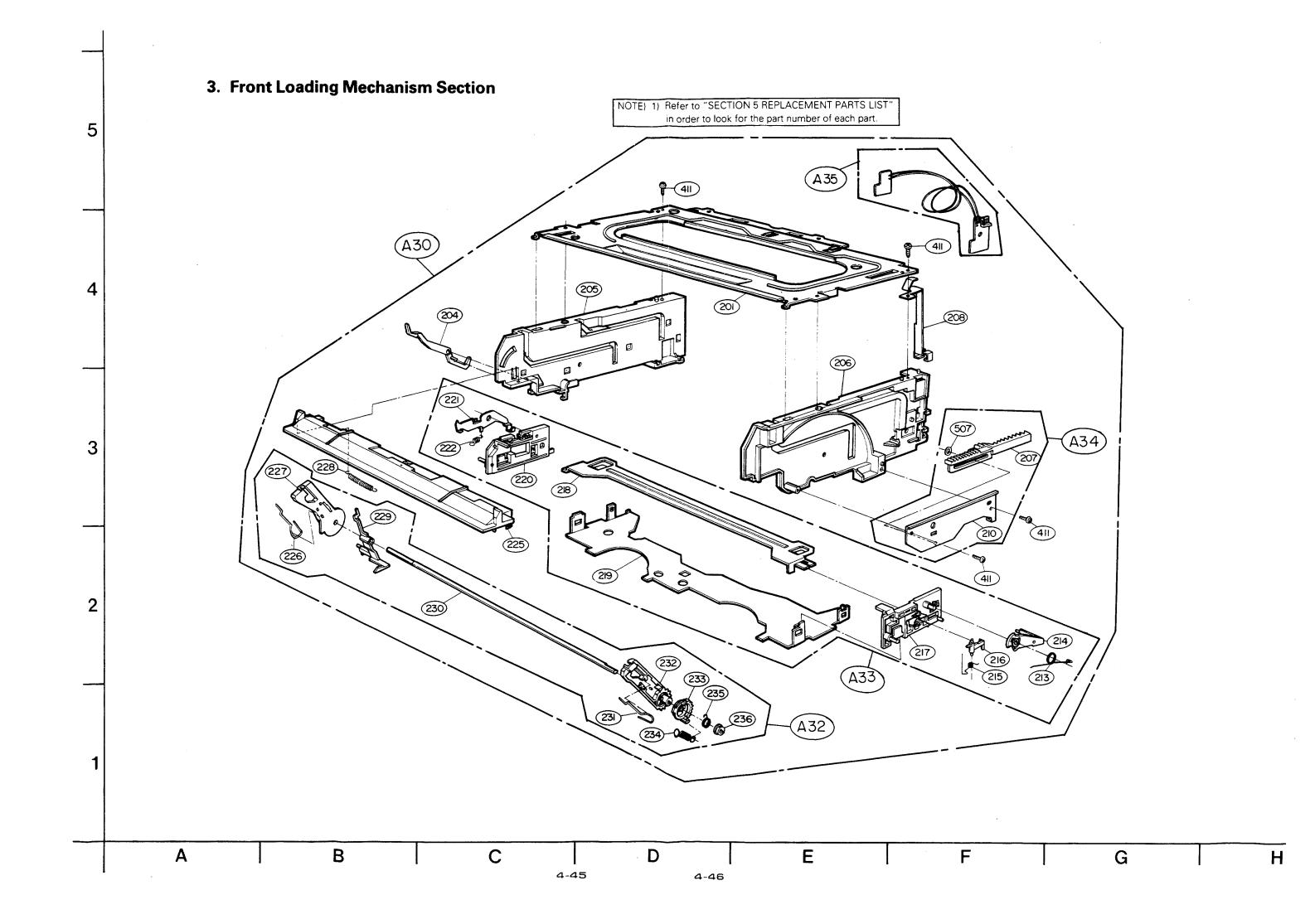
2. Front Loading Mechanism











SECTION 4-2. 8 mm DECK MECHANISM

PERIODICAL CHECK AND MAINTENANCE

For the normal operation and the protection of Tape, the periodical checking and maintaining is required like the unit.

Perform the following steps after the adjustment without the used time.

1. ROTARY DRUM ASSEMBLY CLEANING

Stick the smooth swab moistened with the cleaning water fast to the rotary Drum Slightly, and then rotate the Rotary Upper Drum with a finger to the counter-clockwise slowly.

NOTE:

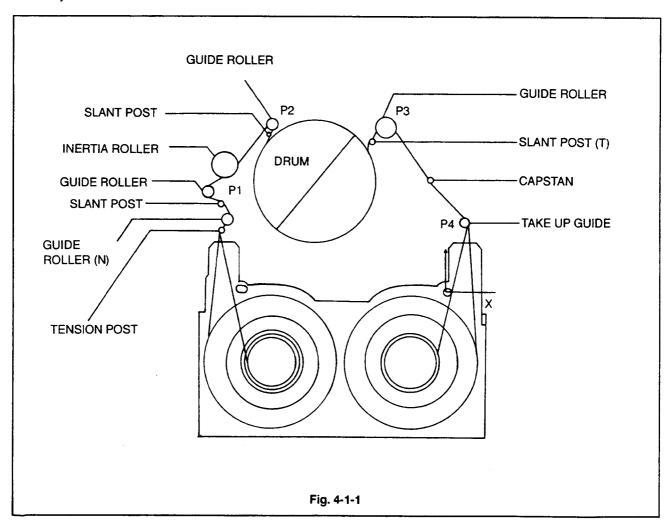
Be careful so the Motor is not to rotate the Drum and not to rotate to the clockwise. Do not use the swab moistened with the cleaning water to the Head Vertically.

2. TAPE LOADING COURSE CLEANING

Set the Cassette Compartment to the Eject State or remove it, and then wipe the Tape loading Course (No. 1 Guide~No. 7 Guide Capstan Shaft, Pinch Roller) with the Chamois Leather Moistened in cleaning water.

3. DRIVE SYSTEM CLEANING

Wipe the Drive System (Timing Belt, Surface of Reel Table etc.) with the Chamois Leather moistened in cleaning water.



4. MAINTENANCE TIME TABLE

Check Parts		Time (Hours) (H)									Remarks	
			1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	Terrains
Cleaning and Demag- netizing	Tape path surfaces Cleaning	0	0	0	0	0	0	0	0	0	0	Be careful about oil
	Rotary drum assembly Cleaning and demagnetizing	0	0	0	0	0	0	0	0	0	0	Be careful about oil
	Relay belt	_	☆	_	☆	_	☆	_	☆	_	☆	
Drive System	Capstan shaft		0	_	0	-	0	_	0	_	0	Be careful about that the Oil do not drop
	Idler pulley axle	_	0	_	0	1	0	_	0	1	0	on the surface of Tape Path
	Loading Motor	_	☆	_	☆	_	☆	_	☆	-	☆	
	Abnormal noise	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
Perfor- mance Check	Brake tension Measurement	_	☆	_	☆	1	☆	_	☆	-	☆	
	Brake system	_	☆	_	☆	_	☆	_	☆	_	☆	
	FWD, RVS torque Measurement		☆	-	☆		ŵ	_	☆	_	☆	

NOTE:

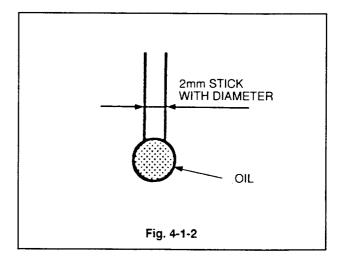
During checking the Unit, refer the Time Table above for the parts change etc.

Oiling:

- Use the regular Oil always.
 (If the unregular oil is used, the Unit may get demaged.)
- Apply the clean oil on the position used the shaft bearing.
- "Oil 1 drop" means the quantity of degree hanged to the end of 2mm Stick with diameter. (Refer to Fig. 4-1-2)

Grease:

• Use the regular Grease.

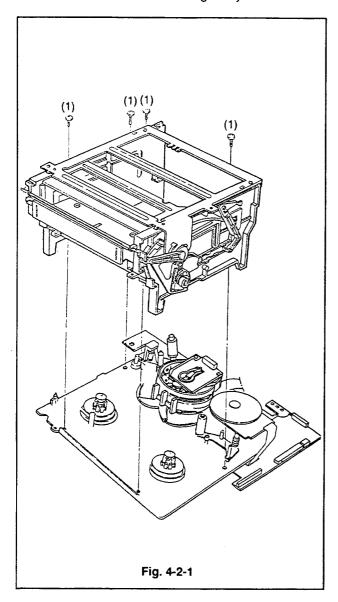


DECK MECHANISM DISASSEMBLY AND REASSEMBLY

1. Front Loading Mechanism

1-1. Housing Ass'y Disassembly

- 1) Disassembly (Fig. 4-2-1)
 - (1) Set the unit to the ULC Mode (Unloading Mode).
 - (2) Remove 4 Screw(1) on the upper part and then remove the Housing Ass'y CST.



2. DC MOTOR (Capstan motor) ASS'Y

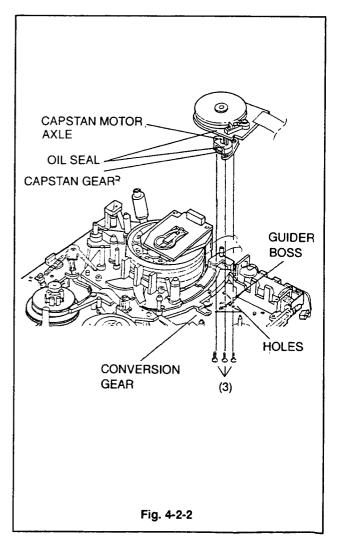
2-1. Disassembly (Fig. 4-2-2)

- (1) Set the Unit on the ULC Mode (Unloading).
- (2) Remove the DC Motor Ass'y by releasing 3 Screws(3) on the lower part of the Chassis.

2-2. Reassembly (Fig. 4-2-2)

- (1) Engage the Capstan Gear with the conversion Gear by fixing the 2 Guider bosses and 3 Guider Holes on the Upper part of Chassis into the 2 Guider Holes on the Capstan Gear.
- (2) Set the DC Motor Ass'y with 3 Screws(3) on the Lower part of Chassis.

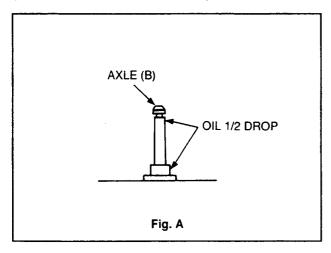
- · Use the about 2kgfcm Torque to fix Screw.
- Do not engage with the Gears by forces, because the Capstan Gear is easy to get demaged.
- · Stick the DC Motor fast to the Chassis completely.
- Do not touch the Capstan motor Axle, Oil Seal and Rotor.

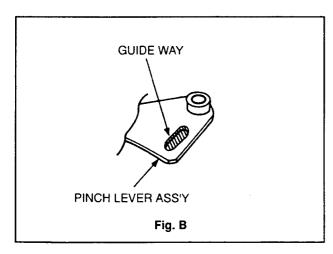


3. PINCH ARM ASS'Y AND PINCH LEVER ASS'Y

3-1. Disassembly (Fig. 4-2-3)

- (1) Set the Unit to the ULC Mode.
- (2) Remove the Pinch Arm Ass'y by removing the stopper Washer.
- (3) Remove the Pinch Lever Ass'y.

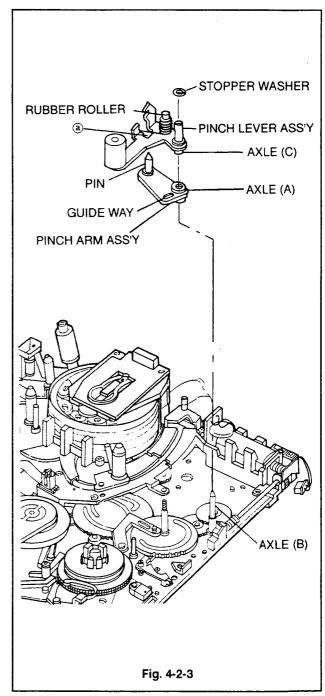




3-2. Reassembly (Fig. 4-2-2, 4-2-3)

- (1) Apply Oil 1/2 drop to the Axle(B) 2 point.
- (2) Apply greese in the in side of Guide on the Pinch Lever Ass'y (Fig. B).
- (3) Stick the Axle(A) of Pinch Lever Ass'y in the Axle B and assemble so the Roller is to be approached to the Guide Way.
- (4) Assemble so the Pinch Lever Ass'y pin is sticked in the ⓐ point by inserting the Pinch Arm Ass'y Axle(C) in the Axle (reassembling state).
- (5) Set the Stopper Washer.

- Be careful the Nut is not to touch the Rubber Roller when reassembling the Pinch Arm Ass'y to Axie
- Be careful the object material is not to stain the outer surface of Rubber Roller.

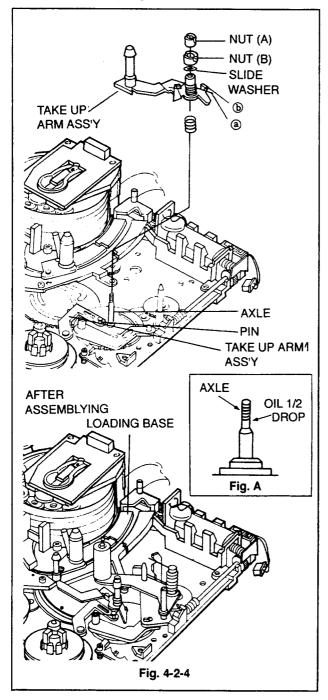


4. TAKE UP ARM ASS'Y

4-1. Disassembly (Fig. 4-2-4)

- (1) Set the Unit to the ULC Mode.
- (2) Remove Nut(A) by using the (-) Driver.
- (3) Remove Nut(B) by using the exclusive Driver.
- (4) Remove the Slide Washer.
- (5) Remove the Take Up Arm Ass'y.

 At this time, remove after the Spring Arm (a) point is to be supported to the Vertical Bending part (b)point of Take Up Arm Ass'y.
- (6) Remove the Spring.

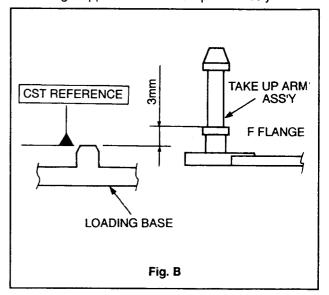


4-2. Reassembly (Fig. 4-2-4)

- (1) Apply the Oil 1/2 drop on the Axle.
- (2) Assembly the Compression Spring, Take Up Arm Ass'y, Slide Waher, Nut(B) and Nut(A) to the Axle.
- (3) Strain the Spring Arm (a) point of Take Up Arm Ass'y to the front to be stopped by sticking in the in side of Take Up Lever Ass'y Pin.

4-3. Take Up Arm Ass'y Height Adjustment

(1) Adjust to 3mm the height between the Cassette install standard side of Loading Base and the Frange Upper side of Take Up Arm Ass'y.



- Do not force the Spring Arm unreassembly during disassembly and reassembly, it may cause the transformation of spring.
- · Readjust the Take Path after reassembly.

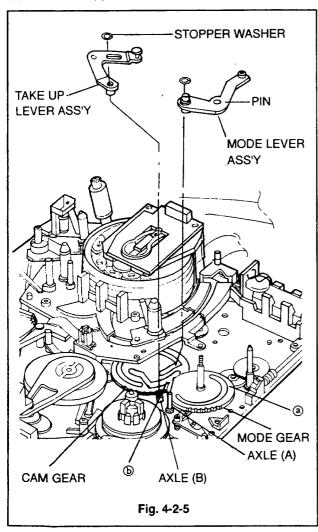
5. MODE LEVER ASS'Y and TAKE UP LEVER ASS'Y

5-1. Disassembly (Fig. 4-2-5)

- (1) Set the Unit to ULC Mode.
- (2) Remove the Stopper Washer and then remove the Mode Lever Ass'v.
- (3) Remove the Stopper Washer and then remove the Take Up Lever Ass'y.

5-2. Reassembly (Fig. 4-2-4, 4-2-5)

- Apply the Grease in the CAM trace (a) of Mode Gear.
- (2) Apply the Oil 1/2 drop to the Axle.
- (3) Stick the Mode Lever Ass'y pin in the CAM trace
 a of Mode Gear and then assemble the Mode Lever Ass'y to the Axle(A).
- (4) Set the Stopper Washer.
- (5) Apply the Oil 1/2 drop to the Axle(B).
- (6) Stick the Take Up Lever Ass'y pin in the CAM trace (b) of CAM Gear and then assemble the Take Up Lever Ass'y to the Axle.
- (7) Set the Stopper Washer.



6. SOFT BRAKE ASS'Y AND T/BAND PROTECT

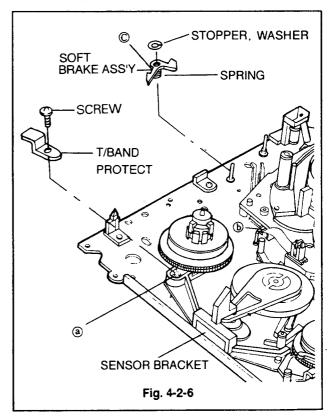
6-1. Disassembly (Fig. 4-2-6)

- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point © stuck in the Vertical Bending part point ® on the Upper part of Chassis to the Spring hanger of Soft Brake Ass'v.
- (3) Remove the Stopper Washer and then remove the Soft Brake Ass'v.
- (4) Release the Screw and remove the T/Band Protect.

6-2. Reassembly

- (1) Stick the T/Band Protect in the Sensor Bracket point (a).
- (2) Set the Screw to point @ using the (+) Driver.
- (3) Set the Soft Brake Ass'y to the Axle.
- (4) Set the Stopper Washer.
- (5) Assemble the Spring Arm point © stuck in the Soft Brake Ass'y supports the Vertical Bending part point ⓑ on the upper part of Chassis.

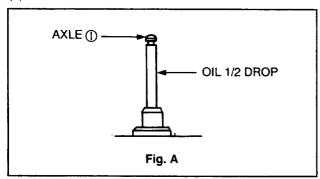
- Use the about 1.2kgf cm Torque to fix the T/Band Protect Set Screw.
- Do not force the Spring Arm © unreassembly, it may cause the transformation of Spring.
- During T/Band Protect assembling, be careful the Reel Ass'y Gear not to be denaged.

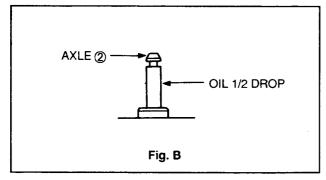


7. TENSION REGULATOR ASS'Y AND SLANT ROLLER ARM ASS'Y

7-1. Disassembly (Fig. 4-2-6, 4-2-7)

- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point (a) to the Spring Hanger point (e) of Slant Roller Arm Ass'y.
- (3) Remove the Stopper Washer and the remove the Slant Roller Arm Ass'v.
- (4) Remove the Spring Hook of Tension Regulator Ass'y from the Spring Hanger point © of Bracket.
- (5) Remove the Screw using the (+) Drive.
- (6) Remove the Stopper Washer and then remove the Tension Regulator Ass'y.
- (7) Remove the Slide Washer.





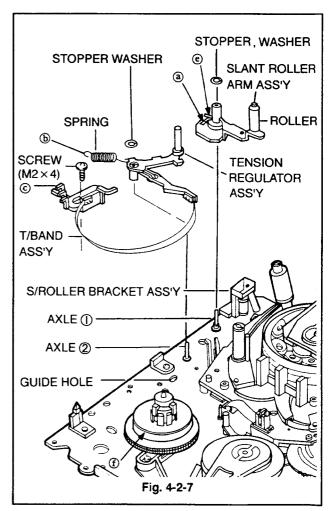
NOTES:

- Be careful so the Band is not to be distarted or folded and the Felt is not to be dirted by an object material during disassembly the Tension Regulator Ass'y.
- Be careful so the Roller surface is not to be dirted by an object material during disassembling the Slant Roller Arm Ass'y.

7-2. Reassembly (Fig. 4-2-7, 4-2-8)

- (1) Assemble the Slide Washer to the Axle (2).
- (2) Apply the Oil 1/2 drop to the Axle (2).
- (3) Assemble the Felt side of T/Band Ass'y with the point ① part of S-Reel Ass'y correctly by sticking the Tension Regulator Ass'y on the Axle.
- (4) Assemble the Bracket Guider boss of T/Band Ass'y to accord with the Guide Hole on the upper part of Mechanism Chassis, and then set the Screw.

- (5) Assemble the Stopper Washer on the Axle (2).
- (6) Put up the Spring Hook at the middle point of Bracket Spring Hanger ©.
- (7) Apply the Oil 1/2 drop to the Axle ().
- (8) Assemble the Slant Roller Arm Ass'y on the Axle
- (9) Set the Stopper Washer to the Axle (1).
- (10) Adjust the position of Tension Regulator FWD.
- (11) Put up the Spring Hook (5) at the middle Claw of Bracket Spring Hanger (6) on the T/Band Ass'y.



- During assembling the Tension Regulator Ass'y, be careful the Band is not to be distorted or folded and the Felt is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Bracket Set Screw.
- During assembling the Slant Roller Arm Ass'y, be careful the Roller surface is not to be dirted by an object material.

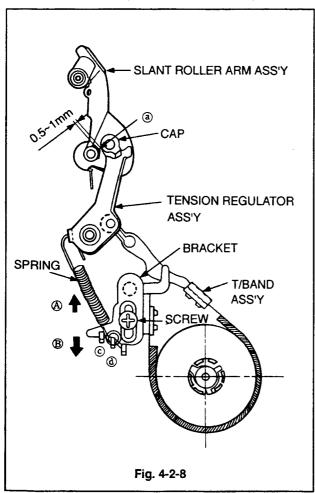
8. TENSION REGULATOR FWD POSI-TION AND BACK TENSION ADJUST-MENTS

8-1. FWD position Adjustment

- (1) Set the Unit to the FWD Mode after Loading a Cassette Tape. (Loading make)
- (2) Make Sure the gap between the edge of cap on the Tension Regulator Ass'y and the edge of Boss point (a) on the Slant Roller Arm Ass'y is 0.5~1 mm.
 - If the gap is over the range, adjust the next step after ejecting the Cassette Tape.
- (3) Remove the Set Screw of the Bracket on the T/Band Ass'y.
- (4) If the measuring gap is farther than the range, draw the Bracket up to the Direction of arrow (A), and if the gap is nearer than the range, thrust the Bracket to the direct on of arrow (A), and then set the Screw.
- (5) Check the gap is in the range value by adjusting steps(1), (2) repeatedly.

NOTES:

Use a Cassette Tape wound about half.



8-2. Back Tension Adjustment (Fig. 4-2-8)

- (1) Load the Torque Cassette Tape in the Unit and set the Unit to Ope-Mode after step, adjustment. (Forward Play Mode).
- (2) Check the Back Tension Torque of the Supply side is in 6.5±2(gf cm).
- (3) Otherwise, adjust the Spring hanger position of Bracket as follows;
- (4) If the measurment value is more than the range, put the Spring Hook up to the Hanger ©, and if it is less than the range, put the Spring Hook up to the Hanger.
- (5) Make sure the Back Tension is in the range value by adjusting steps(1), (2) repeatedly.

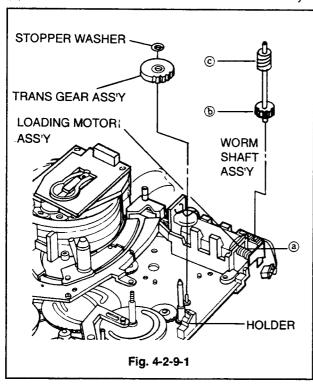
8-3. Reel Torque Checking

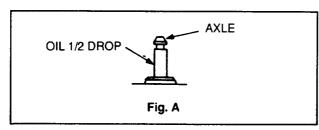
- (1) Load the Torque Cassette Tape in the Unit.
- (2) Set the Unit to FWD Mode and check the Torque on the T Reel Table is in 12.5 ± 4gf cm.
- (3) Set the Unit to REV Mode and Check the Torque on the S Reel Table is in 12.5±4gf cm.
- (4) Set the Unit REV Mode and Check the Torque on the T Reel Table is in 12.5 ± 4gf cm.
- (5) If each Torque Value is over the range, change the Reel table.

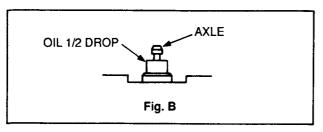
9. WORM GEAR ASS'Y MIDDLE GEAR, TRANS GEAR ASS'Y, LOADING MOTOR ASS'Y AND BRACKET ASS'Y

9-1. Disassembly (Fig. 4-2-9-1, 4-2-9-2)

- (1) Remove the Screw for removed the Loading Motor Ass'y (Fig. 2-9-2). At this time, the Worm Gear Ass'y is disassembled simultaneously with the Loading Motor Ass'y (a) and Worm Gear Ass'y (b) in gear together. (Fig. 4-2-9-1)
- (2) Remove the Loading Motor Ass'y and Worm SHAFT Ass'y. (Fig. 4-2-9-1)
- (3) Remove the Stopper Washer and remove the Trans Gear Ass'y.
- (4) Remove the Stopper Washer and remove the Middle Gear.
- (5) Release the Screw to remove the Bracket Ass'v.

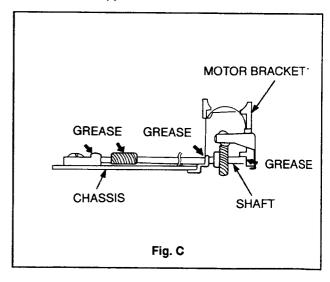






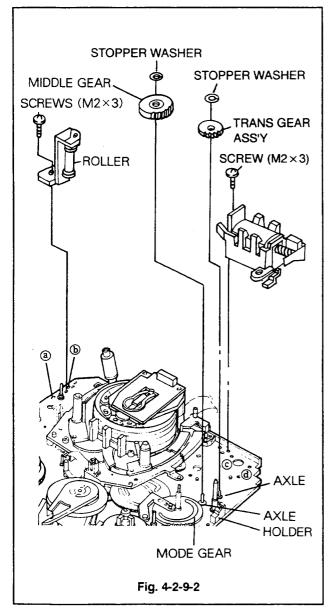
9-2. Reassembly (Fig. 4-2-9-2)

- (1) Assemble the Guide Bosses 2 points of Bracket Ass'y to accord with the Guide Holes "@" and "">®" on the upper part of Mechanism Chassis, and then set the screw.
- (2) Apply the Oil 1/2 drop on the Axle.
- (3) Go in gear the Mode Gear with Middle Gear by sticking on the Axle.
- (4) Set the stopper Washer to the Axle.
- (5) Assemble the Guide Bosses 2 points on the Lower part of Loading Motor Ass'y to accord with the Guide Holes "©" and "@" on the upper part of Mechanism Chassis and then set the Screw.
- (6) After the Gear point ⑤ of Worm Gear Ass'y is to be toward below, stick it into the Gear ⑥ bottom of Loading Motor Ass'y, and fix the Shafe end tip is to be supported to the Loading Motor Bracket first tip, and then assemble the other side of Shaft by pushing from inside of Holder to outside.
- (7) Apply the GREASE on the parts. (Fig. C)
- (8) Apply the Oil 1/2 drop on the Axle.
- (9) Go in gear with the Middle Gear and Worm Gear Ass'y Gear © together by sticking the Trans Gear Ass'y on the Axle.
- (10) Set the Stopper Washer on the Axle.



NOTES:

- Do not in gear the Gears by force during disassembly/reassembly of Gear, bited each other.
- During assembling the Bracket Ass'y, be careful the Roller surface is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Screw.



10. LOADING BASE ASS'Y, MODE GEAR ASS'Y AND EJECT LEVER ASS'Y

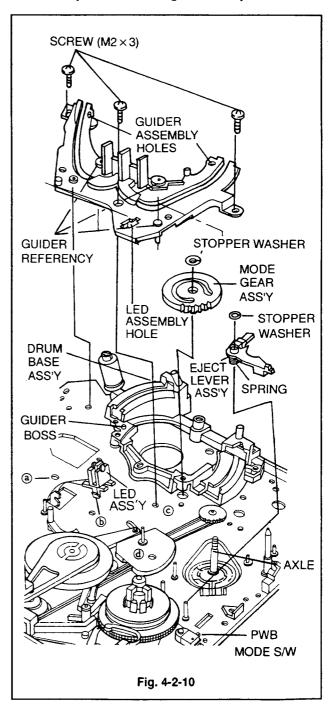
10-1. Disassembly (Fig. 4-2-10)

- (1) Remove the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.
- (2) Remove 3 Screws and then remove the Loading Base Ass'y.

- (3) Release the Stopper Washer and remove the Mode Gear Ass'y.
- (4) Hook the Spring Arm point ⓐ of Eject Lever Ass'y by pushing to the front to the Spring Hanger of Eject Lever Ass'y.
- (5) Remove the Stopper Washer and then remove the Eject Lever Ass'y.

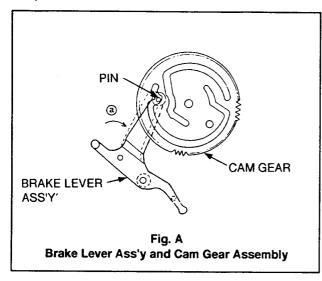
NOTES:

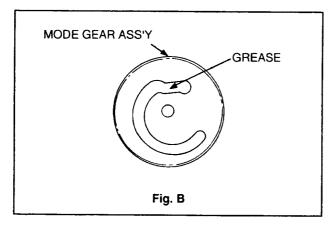
 Be careful the Led Ass'y Hook is not to danage during disassembly the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.



10-2. Reassembly (Fig. 4-2-10)

- (1) Fix the Guide Basic 4 pins of Loading Basse Ass'y to the refuge holes "@ ", "@", "@" and "@" formed on the upper part of Mechanism Chassis. Stick the Pin into the Gear trace of outer Cam formed on the Cam Gear by pushing the Brake Lever Ass'y slightly in the direction of arrow, and then stick the Guide Basic 4 Pins of Loading Base Ass'y fast to Guide 2 Holes by pressing from above to below. (Fig. A)
- (2) Set 3 Screws to "T1", "T2" and "T3" on the upper part of Mechanism Chassis.

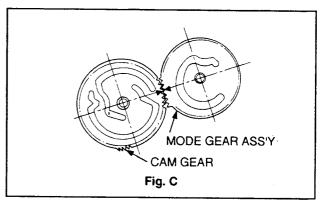


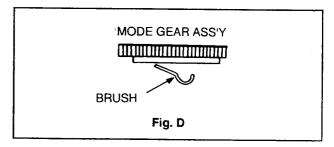


- (3) Assemble the Eject Lever Ass'y on the Axle, and Set the Stopper Washer on it.
- (4) Wipe the surface of PWB Mode S/W with the cotton stick with the cleanser.
- (5) After the cleanser is dried completely, Apply the Grease to the point of contact evenly and thinly.
- (6) Apply the Grease on the Mode Gear Ass'y Cam formative parts.
- (7) Go in gear the Cam Gear with the Mode Gear Ass'y by sticking on the Axle. (Fig. C)

(Assembly Method)

Go in gear with together so the intaglioed arrow edge to accord on the line connected to the middle of Mode Gear Ass'y and the middle of Cam Gear.





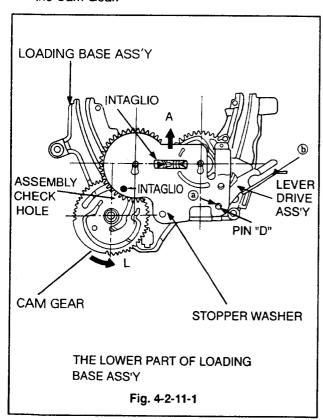
- (8) Set the Stopper Washer on the Axle.
- (9) Push the Spring Arm point (a) of Eject Lever Ass'y from the Spring hanger to below to be supported to the sidewall of CST S/W.
- (10) Apply the Grease on the deviant lines of Loading Base Ass'y (Fig. 4-2-11).
- (11) Stick the Led Ass'y into the Led Ass'y Hold of Loading Bass Ass'y.

- Use the about 1.2kgf mm Torque to set 3 Screws.
- Do not force unreasonably, during disassembly and reassembly it may cause the transformation of Gear.
- Be careful so the Roller(S), (T) is not to be dirted by an object material.
- Take the Led Ass'y Hook and Loading Base Ass'y not to be transformed during assembling the Led Ass'y to the Led Ass'y Hole of Loading Base Ass'y.
- Be careful so the Brush on the Lower part is not to be transformed during handling the Mode Gear Ass'y (Fig. D).
- Do not gear in the Mode Gear Ass'y and Cam Gear by force during assembling, the Gear parts may get damaged.
- Take the Spring Arm
 a of Eject Lever Ass'y not to be transformed by force.

11. GEAR LOADING ASS'Y(S), (T), SLANT BASE ASS'Y(S), (T), CAM GEAR AND LEVER DRIVE ASS'Y

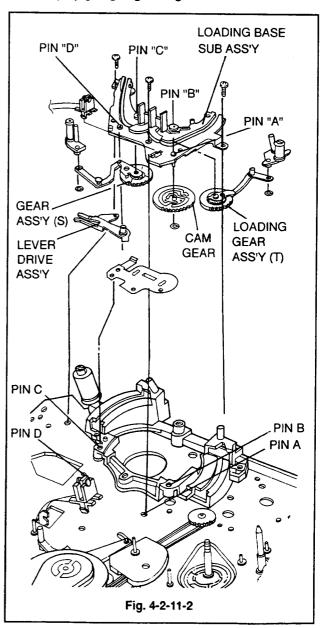
11-1. Disassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Turn the Loading Base Ass'y over, and remove the part ⓐ of stopper Plate from Pin "D" by raising and then remove the Stopper Plate by Pushing and raising to "A" direction (to above). (Fig. 4-2-11-1)
- (2) Remove the Lever Drive Ass'y from Pin "D" on the Loading Base Sub Ass'y.
- (3) Turn the Cam Gear to the "L"direction to stop the rotating. At this time the Slant Base Ass'y(S), (T) also move forward because the Loading Gear Ass'y(S), (T) is rotated (Fig. 4-2-11-3).
- (4) Remove the Loading Gear Ass'y(S) and Slant Base Ass'y(S) from the pin "C" on the Loading Base Sub Ass'y.
- (5) Remove the Stopper Washer of Loading Gear Ass'y and disassemble the Slant Base Ass'y(S).
- (6) Remove the Loading Gear Ass'y(T) and and Slant Base Ass'y(T) from the pin "B" on the Loading Base Sub Ass'y.
- (7) Remove the Stopper Washer of Loading Gear Ass'y(T) and disassemble the Slant Base Ass'y (T).
- (8) Remove the Stopper Washer from the pin "A" on the Loading Base Sub Ass'y and disassemble the Cam Gear.



11-2. Reassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Apply the Oil 1/2 drop on the pin "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-2)
- (2) Apply the Grease on the deviant lines of Cam Gear. (Fig. A)
- (3) Stick the Cam Gear in the pin "A" of Loading Base Sub Ass'y adn then set the Stopper Washer.
- (4) Stick the Slant Base Ass'y(T) and the set theStopper Washer.
- (5) Assemble the Cam Gear and Loadilng Gear Ass'y by going in gear together.

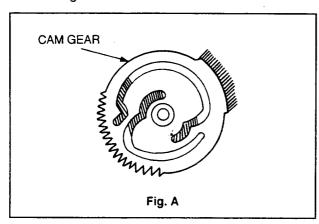


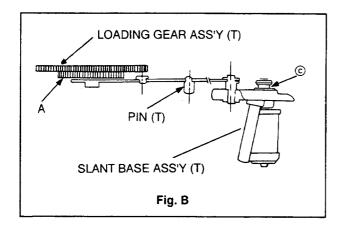
(Assembly Method)

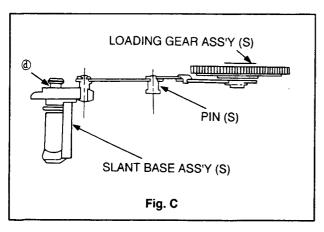
Apply the Oil 1/2 drop to the Pin "B". Accord the "assembly basic Hole", on the part unformed the teeth pattern by turning the Cam Gear, with the Guider Hole "E" forned on the Loading Base Sub Ass'y.

Fix the Loading Gear Ass'y(T) in the Pin "B". Accord the Guider Hole "F" in the center of cam Gear and Loading Cam Gear.

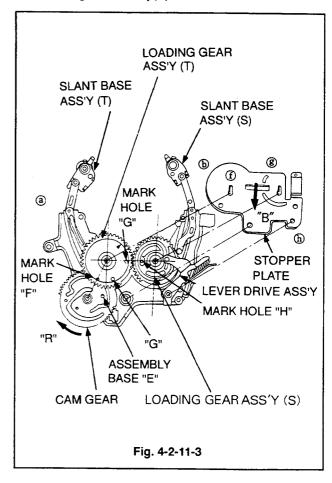
In the state, fix the little Gear(A) Teeth in the Cam Gear by pushing the Loading Gear Ass'y(T) from the Upside to the lower. (Fig. 2-11-3). And Check the Guider Hole "G" of Loading Gear Ass'y(T) is placed in the straight line between Pin "B" and Pin "C".







- (6) Stick the Pin "T" head of Loading Gear Ass'y(T) in the Guide Way "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (7) Stick the Slant Base Ass'y(S) in the Lever Hold of Loading Gear Ass'y(S) and Set the Stopper Washer. (Fig. 4-2-11-2)
- (8) Apply the Oil 1/2 drop in the Pin "C" of Loading Base Sub Ass'y. (Fig. 4-2-11-2). Go in gear the teeth of Loading Gear Ass'y(S) with the teeth of Loading Gear Ass'y(T).

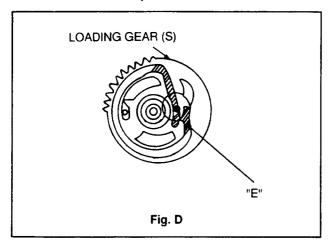


(Assembly Method)

Fix the Loading Gear Ass'y(S) in the Pin "C" and check the Guide Hole "H" is placed in the straght line between Pin "B" and Pin "C", After Assembly, Pin "B", Guider Hole "G", Guider Hole "H" and Pin "C" are placed on the straight line. (Fig. 4-2-11-3)

- (9) Stick the Pin(S) Head of Loading Gear Ass'y(S) in the Guide Way "B" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (10) Rotate the Cam Gear to the direction of "R"

 Stick the part "C" of Slant Base Ass'y(T) and part "D" of Slant Base Ass'y(S) in the Guide Way "A" and "B" of Loading Base Sub Ass'y and then rotate the Cam Gear to the direction of "R" until the rotaty is stopped.
- (11) Apply the Grease on the deviant Lines of Cam trace formed on the Gear. (Fig. D)
- (12) Apply the Oil 1/2 drop in the Pin "D" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (13) During sticking the Lever Drive Ass'y in the Pin "D" of Loading Base Sub Ass'y, stick the Pin "L" of Lever Drive Ass'y in the inside of Cam trace on the Loading Gear(S). (Fig. D, part "E")
- (14) Apply the Grease on the deviant Lines of Lever Drive Ass'y. (Fig. 4-2-11-3)
- (15) Set the Stopper Plate
- (16) Turn the Loading Base Ass'y over, and apply the Grease to the deviant lines of the upper part on the Guide Way.



(CHECKING) (Fig. 4-2-11-1)

- Check the Vertical hem of Loading Gear Ass'y(T) negative mark "D" and Loading Gear Ass'y(S) positive mark " " are accorded with each other.
- Check the stopper Plate Guider Hole "I" and Loading Gear Ass'y(T) negative mark "G" are accorded with each other.
- During the checking, if the wrong result is found, adjust the steps above again.

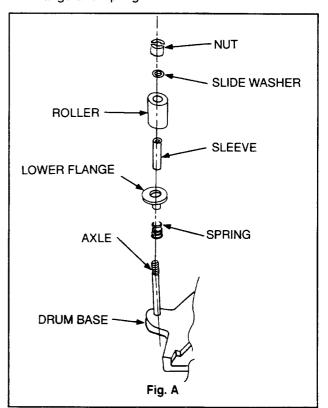
NOTES:

- During the Gears assembly, be careful of the Teeth of Gears get demaged by force.
- Do not force them umreasonably to disassembly and assembly.
- During the Slant and Base Ass'y(C), (T) disassembly and assembly, be careful of the obstruction adhere to the Roller and Post.

12. DRUM BASE ASS'Y AND INERTIA ROLLER ASS'Y

12-1. Disassembly (Fig. 4-2-12) (Fig. A)

- (1) Remove 3 Screws and ever remove Drum Base Ass'y.
- (2) Remove the Nut.
- (3) Remove the Slide Washer, Roller, Sleeve, Lower Flange and Spring.

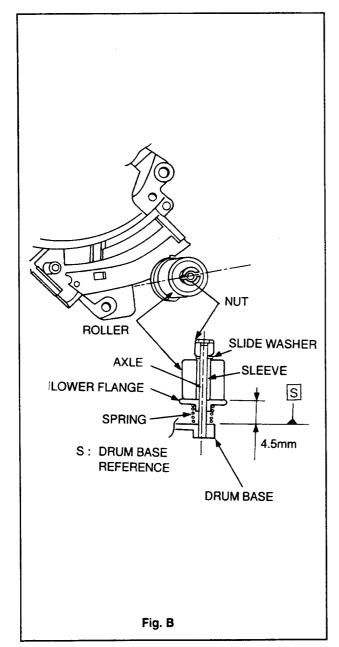


12-2. Reassembly (Fig. 4-2-12) (Fig. A)

- (1) Install the Spring, Lower Flange, Sleeve, Roller and Slide Washer on the Axle of Drum Base.
- (2) Fix the Axle by rotating the Nut four or six times.
- (3) Stick the Guide Bosses 2 point of Drum Base Ass'y in the Boss refuge Holes on the upper part of the Mechanism Chassis from above to below.
- (4) Set 3 Screws to fix the Drum Base Ass'y.

NOTES:

- Use the about 2kgf cm Torque to set Screw.
- Be careful so the Roller surface is not to be dirted during disassembly and assembly.

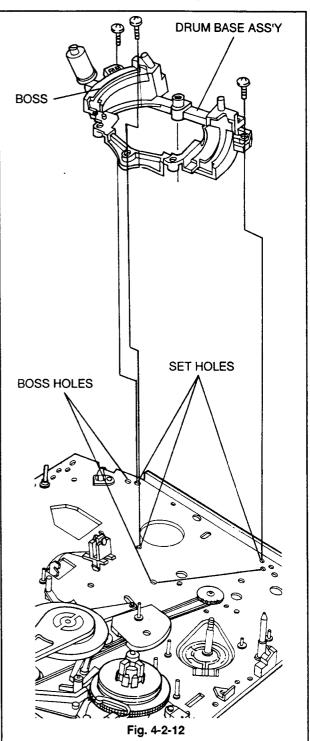


12-3. Roller Height Adjustment (Fig. B)

(1) Adjust the height of Drum Base Lower Side and Lower Frange upper Side by rotating the Nut.

NOTE:

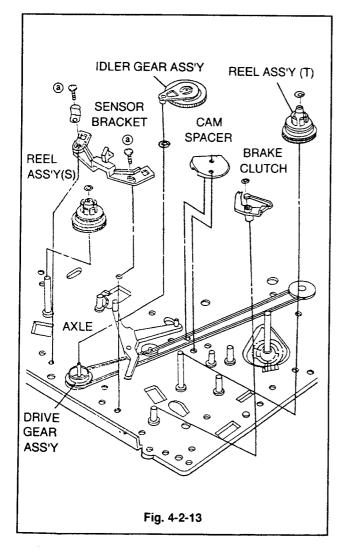
· Readjust the Tape Path after adjustment.



13. BRAKE CLUTCH, REEL ASS'Y(S), REEL ASS'Y(T), SENSOR BRACKET, IDLER GEAR ASS'Y AND CAM SPACER

13-1. Disassembly (Fig. 4-2-13)

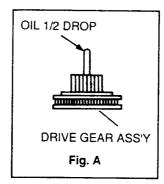
- Remove the Stopper Washer and remove the Brake Clutch.
- (2) Remove the Stopper Washer and remove the Slide Washer after disassembly the Reel Ass'y (T).
- (3) Remove the Reel Ass'y(S) and then remove the Slide Washer.
- (4) Remove the Screw @ and Sensor Bracket.
- (5) Disassemble the Idler Gear Ass'y and remove Slide Washer.
- (6) Remove the Cam spacer.

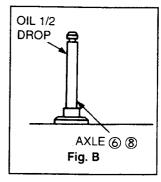


13-2. Reassembly (Fig. 4-2-13)

(1) Stick the Guide Bosses 2 point of Cam Spacer in the Guider Bosses 2 point on the upper part of the Mechanism Chassis in the bottom of the Chassis by pushing from above to helow.

- (2) Stick the Slide Washer on the Axle and then apply the Oil 1/2 drop and assemble the Idler Gear Ass'y on the Axle. (FIg. A). During assembling the Idler Gear Ass'y, go in gear the idler Gear teeth with Gear teeth on the upper part of Drive Gear Ass'y.
- (3) Stick the Guide Boss 2 point of Sensor Bracket in the Guide Holes 2 point on the upper part of Mechanism Chassis and set right part with Screw.
- (4) Push the Spring Arm (a) of Brake Reel Ass'y to be supported to the side wall of Sensor Bracket.
- (5) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel Ass'y (S). (Fig. B)
- (6) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel Ass'y(T). (Fig. B)
- ⇒ Assemble the Reel Ass'y(T) carefully and go in gear the Brake Reel Ass'y teeth with Reel Ass'y (T) teeth by rotating the Lever Brake Ass'y to the direction of "R".
- (7) Set the Stopper Washer on the Axle.
- (8) Set the Brake Clutch and then the Stopper Washer on the Axle.
- ⇒ Assemble the bow of Brake Clutch to be Supported to the Side wall of Reel Ass'y(T).



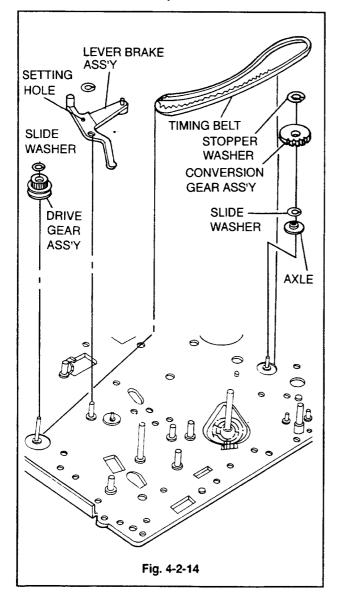


- Be careful so the bow of Brake Clutch is not to be transformed.
- Do not enguage with the Gears by forces, because the Idler Gear is easy to get demaged during the Idler Gear Ass'y.
- Be careful so the teeth is not to get demaged during assembling the Brake Reel Ass'y and Reel Ass'y(T).
- Do not force the Spring Arm unreafonably during the disassembly and reassembly of Spring Arm on the Brake Reel Ass'y, it may cause the transformation of Spring.
- Use the about 1.2kgf cm Torque to set Screw.

14. BRAKE REEL ASS'Y, LEVER BRAKE ASS'Y, TIMING BELT, IDLER BELT, DRIVE GEAR ASS'Y, CONVERSION GEAR ASS'Y

14-1. Disassembly (Fig. 4-2-14)

- (1) Remove the Stopper Washer and remove the Brake Reel Ass'y.
- (2) Remove the Timing Belt. Release the Timing Belt stuck in the Idler Belt and then remove the Timing Belt from the Drive Gear Ass'y.
- (3) Loosen the Stopper Washer, and remove the Idler Belt and Slide Washer.
- (4) Remove the Drive Gear Ass'y and Slide Washer on the Axle.
- (5) Loosen the Stopper Washer, and remove the Conversion Gear Ass'y and Slide Washer.



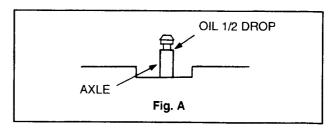
14-2. Reaseembly (Fig. 4-2-14)

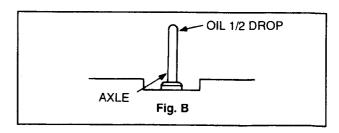
(1) Stick the slide washer on the Axle and apply the oil 1/2 drop on the Axle. (Fig A)

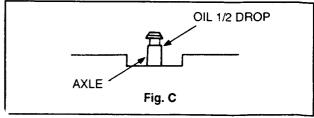
- (2) Assemble the conversion Gear Ass'y on the Axle and set the stop washer.
- (3) Assemble the slide wahser on the Axle and apply the oil 1/2 drop on the Axle. (Fig B)
- (4) Assemble the Grive Gear Ass'y on the Axle.
- (5) Stick the Idler Belt on the Axle and apply the oil 1/2 drop on the Axle.
- (6) Assemble the Idler Belt on the Axie and set the stopper wahser.
- (7) Assemble the Timing Belt. Hook the Timing Belt on the lower Gear of Conversion Gear Ass'y and assemble the vertical port(no teeth part) on the lower teeth part of Drive Gear Ass'y by hooking on the vertical part of IdlerBelt. (Fig. 4-2-13) Apply the oil on the teeth of Timing Belt.
- (8) Assemble the Lever Brake Ass'y on the Axle and set the stopper washer, and then fit the Guider Hole to the cognition hole by rotating the Lever Brake Ass'y.
- (9) Stick the Lever Brake, on the Axle and set the Stopper Washer, At this time, assemble so the part "B" on the Lever Brake Ass'y is to be inserted in the Mouth part "A" on the Brake Reel Ass'y. (Fig. 4-2-13)

NOTE:

Do not force to be transformed unreasonably during the Timing Belt disassembly/assemly.







15. DRUM ASS'Y DISASSEMBLY

15-1. Disassembly

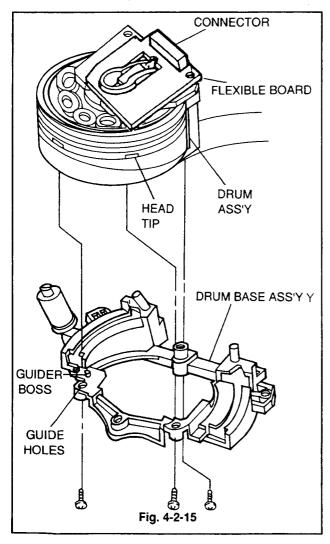
- (1) Set the Unit to the ULC Mode (Unloading mode).
- (2) Remove the Flexible Board and connector.
- (3) Loosen the 3 screws on the Lower part of Chassis and remove the Drum Ass'y from the Drum Base Ass'y.

15-2. Reassembly

- (1) Fit 2 Guider Bosses formed on the Drum Base Ass'y with the Guider refuge Holde on the Lower part of Drum Ass'y, and then set the Drum Ass'y with 3 screws through the Guide Hole of Drum Base Ass'y on the Lower Part of chassis.
- (2) Link the connector to the Flexible Board.

NOTES:

- During the Flexible Board and connector disassembly/assembly, be careful to the Line Cutting or transformation.
- · Do not touch the Head Tip.
- · Readjust the Tape path of ter assembly.
- Use the about 2kgf cm Torgue to set screw.



16. DRUM DISASSEMBLY

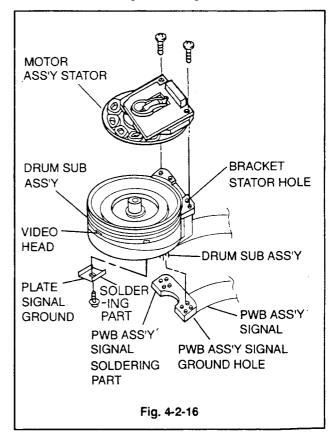
16-1. Disassembly

- (1) Loosen 2Screws on the upper part of Drum Ass'y and remove the Motor Ass'y stator.
- (2) Remove the lead from the soldering part on the Lower part of Drum Ass'y, and remove the Plate Signal by loosening 1 Screw.
- (3) Remove the lead from the PWB Ass'y signal soldering part on the Lower part of Drum Ass'y and remove PWB Ass'y signal.

16-2. Reassembly

- (1) Assemble the Drum to fit the PWB Ass'y signal Hole and the Drum Sub Ass'y pin properly, and solder on the soldering part of PWB Ass'y signal.
- (2) Assemble the Plate Signal Ground on the Drum Sub Ass'y with 1 screw, an then Solder on the soldery part of Plate signal Ground.
- (3) Assemble the Motor Ass'y Stator in the Bracket Stator Hole with 2 screws on the upper part of Drum Sub Ass'y.

- During the parts assembly, do not scratch on the surface of Drum.
- Be careful so the Video Head is not to be damaged.
- Solder carefully after assembling the PWB Ass'y Signal.
- Use the about 2kgf cm Torgue to set screw.



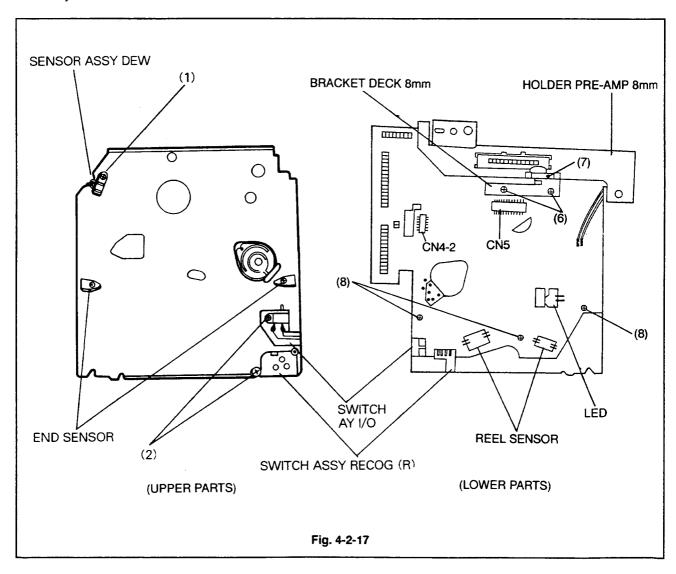
17. PCB ASS'Y DECK

17-1. Disasembly

- (1) Remove 1 screw (4) and 1 screws (5) on the upper parts of chassis.
- (2) Remove the Holder PRE-AMP 8 mm, BRACKET DECK 8mm after release, screw (6) and screw (7).
- (3) Remove 3 screw (8) and remove the solder of Mode switch, LED.
- (4) Remove the PCB ASS'Y DECK JUNTION.

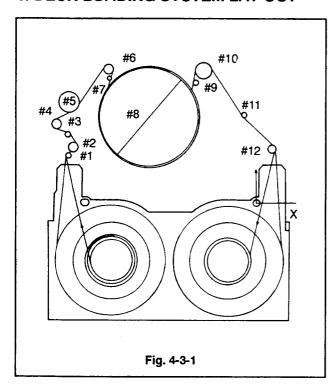
17-2. Reassembly

Perform the reassembly to the reverse order of assembly above.



DECK MECHANISM ADJUSTMENT

1. DECK LOADING SYSTEM LAY-OUT



#1: TENSION POST (@2)

#2: GUIDE ROLLER (N) (4)

#3: SLANT POST (2)

#4: GUIDE ROLLER (4)

#5: INERTIA ROLLER (=P1) (#8)

#6: GUIDE ROLLER (S) (=P2) (• 4)

#7: SLANT POST (S) (@2)

#8: DRUM (40)

#9: SLANT POST (T) (@2)

#10 : GUIDE ROLLER (T) (=P3) (\$\varphi\$6)

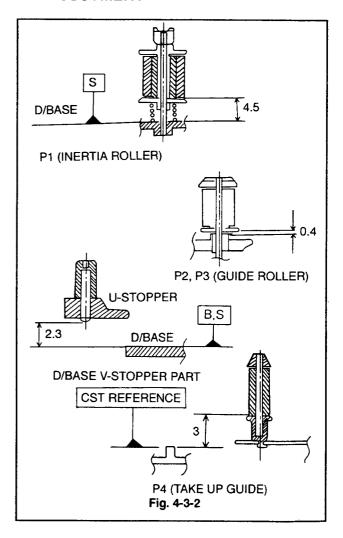
#11: CAPSTAN (1.995)

#12: TAKE UP GUIDE (=P4) (@3)

2. PREPARATIONS

- ① Cleaning water.
- (2) Chanois cloth.
- (3) Cotton stick
- (4) Dental mirror.
- 5 Torgue CST Tape, Alignment Tape and PLAY/RECORDING Tape.
- 6 Hexagonal Wrench(0.89mm) or L-Wrench.
- ⑦ Small(-) Driver⇒P1, P4 Adjustment.
- Oircuit jig for Deck adjustment.

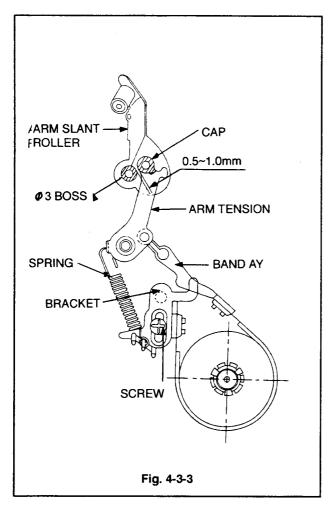
3. LOADING POST FIRST HEIGHT ADJUSTMENT



4. TENTION ARM POSITION AND BACK TENTION ADJUSTMENT

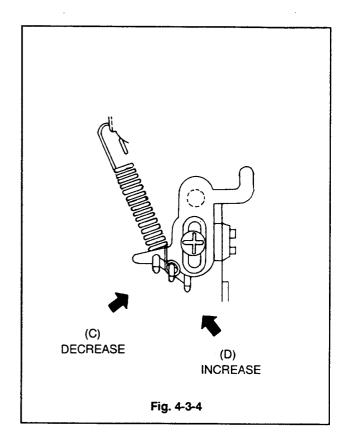
4-1. Tension Arm position Adjustment

- (1) Set the Deck mechanism to the Ope-Mode in No Tape state ⇒using the Circuit Fixture.
- (2) Check the gab between ₱3 Boss of Arm Slant Roller and Cap of Arm Tension is 0.5~1.0 mm. If the gab is over the range, adjust as follows.
- (3) Remove the screw on the Bracket fixing the Band Ass'v.
- (4) Set the Bracket to the desired position by pushing to the direction of A or B and then set the screw.



4-2. Back Tension Adjustment

- (1) After step 4-1 Adjustment, insert the Torgue CST Tape in the Unit and set to the Ope-Mode.
- (2) Check the Back Tension Torgue of Supply side is in 6.5±2 (gf-cm).
- (3) If the measuring value is more than the range, hook the spring of Bracket to (c), and if the value is less than hook to (D).
- (4) Check the Back Tension is in the range by performing the Step 1) and 2) repeatedly.



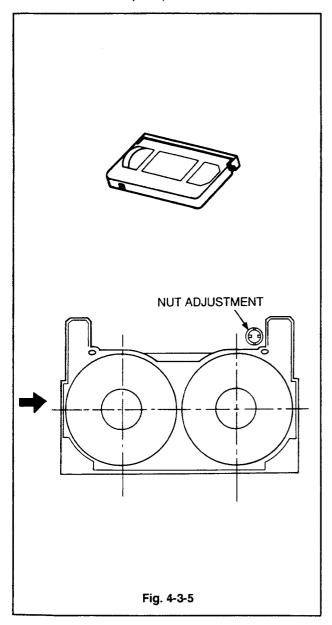
1.5. REEL TORQUE CHECK

Inset the Torque CST Tape in the unit and check the spec as follows;

MODE	UNIT	SPEC	REMARKS
OPC CUE	ar · cm	12.5±4	At T/up Reel
REVERSE	gr · cm	35±6	At Supply Reel
REVIEW		12.5±4	At T/up Reel

6. TAPE PATH ADJUSTMENT

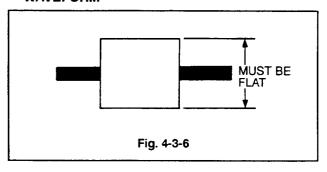
The 8mm Video can control the Tape speed instantaneously using the pilot signal, and adjusst very correctly using the ATF(Automatic Track Finding) method, so the adjustment by Tracking control knob is not need. But in case of ATF method, the Tape Path adjustment is difficult. That is, the perfect adjustment is difficult through the ATF method, because it compensates the Head Tracking Error to extent. Therefore, select the Track shift Mode for is possible and the Tracking control is easy. NOTE for P4 Guide (#12).



6-1. Adjustment preparation

- (1) Wipe the Tape path. (Tape Guides, Drum, Capstan Shaft, Pinch Rollor)
- (2) Set the oiscilloscope for the Waveform Output.
- (3) Play Back the alignment Tape for Tracking control.
- (4) Chck the RF Waveform of Oscilloscope in the Entrance/Exit is flat Otherwise, adjust as follows;

WAVEFORM



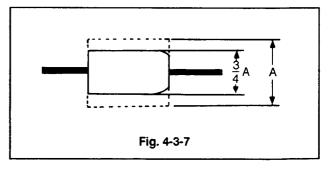
6-2. Tracking Control

- (1) Playback the Aligment Tape for Tacking contrl.
- (2) Using the Running Control stick, rotate the P2-Guide so the waveform of entrance side is to be flatted.
- (3) Using the Running control stick, ortate the P3-Guide so the waveform of exit side is to be flatted.

6-3. Tracking Fine Adjustment

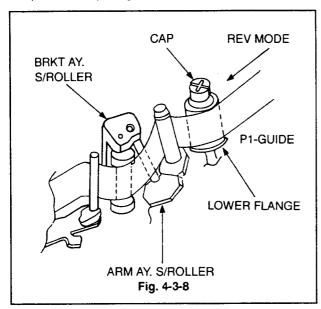
- (1) Playback the Alignment Tape for Tracking control and set the unit to the Track shift mode.
- (2) Check the waveform is flat. Otherwise, roate the P2-Guide and P3-Guide so it is to be flatted.
- (3) Set the Lock screw of P2 side using the Hexaponal Wrench 4 L-Wrench, etc. At this time, check the entrance of waveform is not change.
- (4) Set the Lock Screw in the P3 side using the hexaponal Wrench 4 L-Wrench, etc. At this time, check the exit side of waveform is not changed.

WAVEFORM



6-4. P1-Guide (Inertia Roller) Adjustment

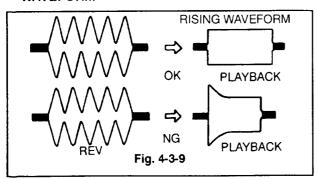
- (1) Playback the P6-120MP Tape, and then set the unit to REV Mode.
- (2) Check the distortion is occurred in the Lower Flange of P1-Guide. If it appears, bring the Cap of P1-Guide a lower by rotating it to the clockwise with the driver until the tape is flatted.
- (3) Playback the Alignment tape for the Tracking control.
- (4) Perform the Tracking Control and Tracking Fine Control.
- (5) In the Track Shift state, playback the tape again after CUE/REV. At this time, check the RF Waveform is stabled horizontality in 2secs.
- (6) If not, rotate the cap of P1-Guide to an angle of 90 degrees of counter-clockwise and then perform step 5 again.



NOTES:

- ① Repeat Step(5),(6) until the normal waveform ranged is become. At this time, if the RF waveform is changed, perform the Track Fine adjustment of Entrance side and then repeat step(5) again.
- ② Druing FF/REW Mode, check the Curl or Tape Jam are occurred on the #4 Guide Roller Upper/Lower Flange of Bracket AY, S/Roller.

WAVEFORM

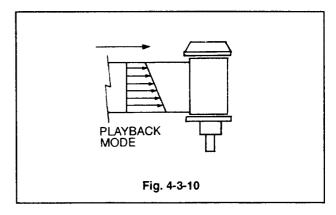


6-5. P4-Guide(T/Up Guide) Adjustment

- (1) Playback the Alignment Tape for Tracking control and set the unit to the REV-Mode.
- (2) Check the Tape transformation is not occurred between the P3-Guide and Capstan Shaft. If it occurrs, rotate the P4-Guide Height Adjustment Cap until the Tape transformation is ridded.
- (3) Set the unit to the playback Mode, and then check the Tape transformation is not occurred between the Capstan shaft and P4-Guide(within 0.5mm) If the Tape transformation is more than 0.4mm, adjust the P4-Guide Height unil it is become within 0.5mm.

NOTES:

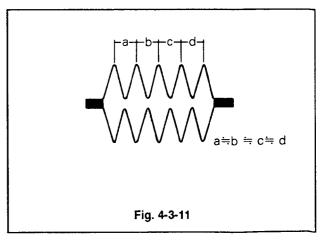
- When the unit is set to the REV*Mode. it is good adjustment that the transformation between P3-Guide and Capstan Shaft is appeard within 0.
 3mm
- The Upper/Lower Tape Tension distribution in the P2,P3-Guide must be as follows;



6-6. CUE/REV Waveform check

- (1) Playback the Alignment Tape for Tracking control and then set the unit to the REV Mode. Check the top of each waveform is sustained with the regular width of 5 or more than 5. Otherwise, perform Item 6-3.
- (2) Set the unit to the CUE-Mode. Check otherwise, perform Item 6-3.

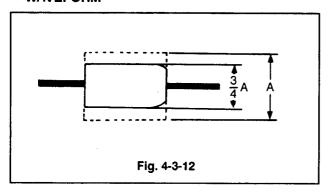
WAVEFORM



6-7. Check after Adjustment

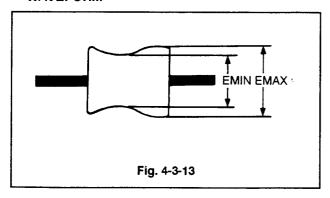
- (1) Tracking Check
 - 1) Check the width of RF Wavefrom is reduced to about 3/4 when do the unit set to the Track Shift position.

WAVEFORM



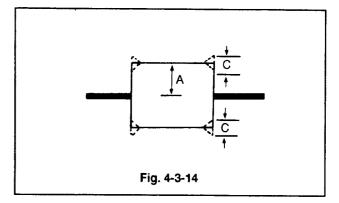
 Check the Minimum width (Emin) is the 65% of Maximum Width (Emax) or more than 65%.

WAVEFORM



- 3) Check the Waveform is not changed greatly.
- (2) Rising Check
 - Playback an Alignment Tape for Tracking Control.

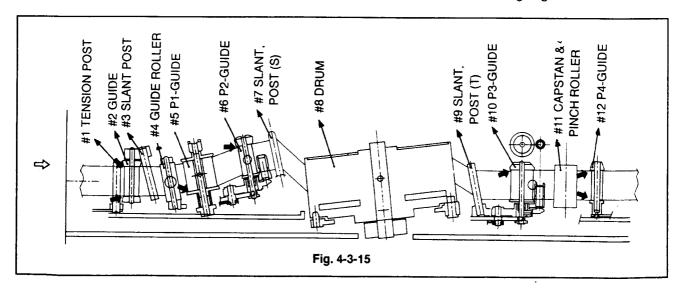
WAVEFORM



- 2) Release the Tracking Shift State.
- 3) Unload the tape and load again.
- 4) Set the Unit to the PLAY mode and check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.
- 5) Set the Unit to the CUE/REV and FF/REW modes and then playing back again, check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.
- 6) Check the process from 3) to 5) repeatedly.
- (3) TAPE PATH Adjustment
 - Playback the P₆-120MP (NTSC) or P₅-90MP (PAL) Cassette Tape.

Check the Tape gets on or the Tape folded state is within 0.3mm in the following flanges;

- ① Upper and Lower Flange of #2 Guide.
- 2 Lower Flange of #5 P1-Guide
- 3 Upper Flange of #6 P2-Guide
- 4 Upper Flange of #10 P3-Guide
- ⑤ Upper and Lower Flange of #12 P4-Guide
- 2) During Playback Mode, press the FF key to set CUE Mode or press the REW key to set REV Mode, and at this time, check the Tape gets on or the Tape folded state is within 0. 3mm in the following flages.



4. EXPLODED VIEW NOTE) 1) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part. 4-1. CASSETTE HOUSING SECTION 2 В C Α D F G

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SECTION 5 REPLACEMENT PARTS LIST

1. Mechanical Section

1-1. VHS Mechanism

RUN DATE: 95.09.27 NSP: Not Service Part

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
1		· · · · · · · · · · · · · · · · · · ·	ASSEMBLY PARTS	S SECTION	
	A00	412-127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
OR		412C127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
OR	A00	412G127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	'
OR	A00	412H127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	İ
OR	A00	412W127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
	A01	413-184D	DRUM	ASSY (D17-7CH PAL) DD2	
	A02	386-296C	ARM	ASSY CL	
OR		311-005G	CHASSIS ASSY'	D17	NSP
	A03	311-005M	CHASSIS ASSY'	D17	NSP
	A04	456-048A	REEL	ASSY SUPPLY POM 7G	
	A05	456-045A	REEL	ASSY T/UP POM 7G	
	A06	321-397D	BRACKET	ASSY F/R	
1	A07	225-228A	BASE	ASSY A/C	İ
OR		225-248A	BASE	ASSY,P2	}
	A08	225-248B	BASE	ASSY P2 (W-W)	
OR	l	225-249A	BASE	ASSY,P3	
	A09	225-249B	BASE	ASSY P3 (W-W)	
	A10	414-104A	MOTOR	ASSY LOAD	
	A11	333-209E	LEVER	ASSY PINCH	
	A20	321-401A	BRACKET	ASSY BOTTOM	
-	A21	333-208A	LEVER	ASSY RAT	
1	A22	338-078A	BRAKE	ASSY CAP	
	A23	386-218A	ARM	ASSY LOAD(R)	
	A24	386-219A	ARM	ASSY LOAD(L)	
	A25	511-997D	PWB ASSY!	D-17,VCR	
OR		219-017F	HOUSING	ASSY (D17)	
0.,	A30	219-017L	HOUSING	ASSY (D17)	
	A32	435-257B	GEAR	ASSY DRIVE (HOOK ADDED)	ĺ
	A33	321-406A	BRACKET	ASSY CARRIÈR	
	A34	321-441A	BRACKET	ASSY SIDE	
	A35	515-106B	PWB ASSY!	SENSOR	
	J		PARTS SEC	TION	
	001	413-182D	DRUM	ASSY UPPER (D-17 7CH PAL)	
	002	413-183A	DRUM	ASSY LOWER (7CH)	
	005	225-231B	BASE	ASSY D-BRUSH	
OR	1	225-220A	BASE	DRUM	NSP
OR	2	225-220C	BASE	DRUM (Y-H)	NSP
Jon	006	225-296A	BASE	ASSY DRUM (HI-FI)	NSP
	000	386-297A	ARM	SUB ASSY CU	,,,,,
	007	442-460B	SPRING	CU	
	010	386-295B	ARM	CL	
	012	384-071A	GUIDE	17	
	012	523-082B	HEAD	FE,HVFHF0010AK	
OF		523-824A	HEAD	F.E MH-131G (D-17)	
	013	378-017A	SLEEVE	P1	
	015	434-178A	ROLLER	P1	
OF		434-178B	ROLLER	P1	
	010	1001100	LITOLELIT		

RUN DATE: 95.09.27
NSP: Not Service Part S AL LOCA.NO PART NO(GS) DESCRIPTION **SPECIFICATION REMARKS**

016 389-003B ADJUST P(4) 017 434-244A ROLLER ASSY INERTIA 018 386-205A ARM ASSY TENSION 019 442-331C SPRING TENSION 020 328-052B BAND ASSY TENSION 021 334-066A STOPPER P1 027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17 030 442-341A SPRING REEL	NSP NSP NSP NSP
018 386-205A ARM ASSY TENSION 019 442-331C SPRING TENSION 020 328-052B BAND ASSY TENSION 021 334-066A STOPPER P1 027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP NSP
019 442-331C SPRING TENSION 020 328-052B BAND ASSY TENSION 021 334-066A STOPPER P1 027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP
020 328-052B BAND ASSY TENSION 021 334-066A STOPPER P1 027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP
021 334-066A STOPPER P1 027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP
027 435-243A GEAR IDLE A POM 3G 028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP
028 435-244A GEAR IDLE B POM 3G 029 456-040A REEL T17	NSP NSP
029 456-040A REEL T17	NSP NSP
	NSP NSP
1 1 030 442-341A SPRING REFL	NSP
	1 1
031 276-068A CAP REEL	NSP
032 456-039A REEL S17	
036 435-240A GEAR F/R POM 3G	1 1
037 442-336A SPRING UP/D	NSP
038 435-239A GEAR UP/D POM 3G	NSP
040 333-201B LEVER ASSY F/R	NSP
044 442-338B SPRING SSB	NSP
045 338-081A BRAKE S-SOFT	NSP
046 442-337A SPRING SMB	NSP
047 338-080A BRAKE ASSY S-MAIN	NSP
048 442-339D SPRING TSB	NSP
049 338-083A BRAKE ASSY T-SOFT	NSP
050 321-396A BRACKET SUB ASSY F/R	NSP
054 389-013A ADJUST X-ASSY	
056 378-018A SLEEVE P4	
060 442-343A SPRING T/UP	
061 386-387B ARM ASSY T/UP	
065 442-332A SPRING A/C	
066 225-219A BASE SUB ASSY A/C	NSP
068 523-089A HEAD SUB ASSY A/C	1101
069 442-362A SPRING AZIMUTH	
070 338-085A BRAKE ASSYT-MAIN	
071 442-344A SPRING TMB	
074 434-173A ROLLER ASSY GUIDE	1
OR 074 434-173C ROLLER ASSY GUIDE	
075 353-054B SCREW MINIATURE	
082 437-009A WORM ASSY	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NSP
	NSP
092 442-346A SPRING STOPPER	NSP
093 334-050C STOPPER PINCH	NSP
OR 094 434-181A ROLLER ASSY PINCH	i
094 434-181B ROLLER PINCH D14 X L18	
095 276-089B CAP PINCH	NSP
096 333-203A LEVER PINCH	NSP.
098 333-344A LEVER T-UP (N)	
100 321-463A BRACKET SUB ASSY B	NSP
102 435-249A GEAR RAT1	NSP

NSP: Not Service Part

s	ΔΙ	LOCA NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	t Service Part REMARKS
$\vdash \downarrow$	~-					
		103	442-356A	SPRING	F-LEVER	NSP
	1	104	356-208A	PIN	F-LEVER	NSP
		106	442-345A	SPRING	RAT	NSP
	İ	107	333-202A	LEVER	RAT	NSP
- 1		108	333-207A	LEVER	F17	NSP
		110	374-005A	CAM	D17 POM 10G	
		111	435-318A	GEAR	ASSY RACK F/L	
		112	435-291A	GEAR	ASSY RACK T	
		113	435-246A	GEAR	PC POM 3G	
		114	414-121B	MOTOR	CAPSTAN, GVC017S	
		115	452-047A	BELT	CENTER D71.9 X SQRT2.0	
		116	256-734A	PLATE	F17	
	117 442-342B SPRING		SPRING	FP		
		120	338-089A	BRAKE	SUB ASSY CAP	1
		121	442-333A	SPRING	CAPSTAN	1
.		122	432-038A	PULLEY	GEAR POM 3G	1
		130	337-005A	CLUTCH	ASSY POM 7G FELT 20X1X1T 2EA	
		131	340-001A	HOLDER	LED (Q)	
		132	324-642A	HOLDER	R/S	1
		133	513-494D	PWB	JUNCTION D-17 VCR	NSP
		134	556-133A	SWITCH	MODE	
	OR	134	556-133B	SWITCH	MODE; ALPS	
ŀ	OR	135	0DL451000AA	DIODE LED	IR SENSOR GL451 (LONG) SHARP	
		135	0DL550000AB	DIODE LED	IR SENSOR EL-55L(LONG) KOC	
		136	657-102K	SENSOR	SG-105(REEL) D-16 KOC	
		137	556-131A	SWITCH	ESE-105SV1	
		138	435-234A	GEAR	LOAD(R)	
:		139	442-330A	SPRING	LOADING	
		140	386-274A	ARM	SUB ASSY (R)	
		142	435-235A	GEAR	LOAD(L)	
		143	442-330B	SPRING	LOADING	
		144	386-273A	ARM	SUB ASSY (L)	
		146	333-218A	LEVER	ASSY A-TEN	
		150	321-527A	BRACKET	ASSY C-GUIDE	
		201	256-934B	PLATE	TOP	
l		201	465-026A	OPENER	DOOR	
		204	321-517B	BRACKET	LEFT (D17)	
		205	321-517B 321-518A	BRACKET	RIGHT (D17)	
		200	435-278A	GEAR	RACK N/D	
		207	256-910A	PLATE	GND TOP	
				1	SIDE	
		210	321-440A	BRACKET	1	NOD
		213	442-351A	SPRING	OC	NSP
		214	465-028A	OPENER	CST	NSP
ļ		215	442-357A	SPRING	RID	NSP
		216	465-027A	OPENER	RID	NSP
		217	324-647A	HOLDER	R	NSP
		218	321-407A	BRACKET	SUPPORT	NSP
		219	321-405A	BRACKET	CARRIER	NSP
		220	324-646A	HOLDER	L	NSP
		221	333-210A	LEVER	DT	NSP
		222	442-358B	SPRING	DT	NSP
		225	384-074A	GUIDE	CST	
		226	442-352A	SPRING	L	NSP
		227	435-254A	GEAR	L	NSP
	L_	228	442-350A	SPRING	S/W	

NSP: NOT Service Pa							
S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS	
		229	333-204A	LEVER	S/W	NSP	
		230	423-368A	SHAFT	D	NSP	
		231	442-353A	SPRING	R	NSP	
		232	435-255A	GEAR	R	NSP	
		233	435-256B	GEAR	C (HOOK ADDED)	NSP	
		234	442-359C	SPRING	CUSHION (D17F/L)	NSP	
		235	442-354A	SPRING	CC	NSP	
		236	276-086A	CAP	DRIVE	NSP	
				SCREW			
		400	1MDC0302418	PAN HEAD MACHINE SCREW P/WASH+	D 3.0 L 8.0 MSWR3/FZY		
		401	1MPK0261418	PAN HEAD MACHINE SCREW +,-	D 2.6 L 4.0 MSWR3/FZY		
			SPECIAL				
		404 353-048D SCREW CONE POINT 3X8		CONE POINT 3X8			
		408 1MBC0302418 BINDING HEAD MACHINE SCREW + D 3.0 L 8.0 MSWR3/FZY		D 3.0 L 8.0 MSWR3/FZY			
		411	353-046B	SCREW	SPECIAL (3X8 FZMY)		
		412	1MBC0302818	BINDING HEAD MACHINE SCREW +	D 3.0 L 12 MSWR3/FZY		
		421	1MPC0302618	PAN HEAD MACHINE SCREW +!	D3.0 L10.0,MSWR3/FZY	Ì	
		422	1MPC0302418	PAN HEAD MACHINE SCREW +!	D 3.0 L 8.0 MSWR3/FZY		
		425	1SRF0302418	BRAIZER HD TAP TITE SCREW +	D 3.0 L 8.0 MSWR3/FZY		
		426	1MPC0302018	PAN HEAD MACHINE SCREW +!	D 3.0 L 6.0 MSWR3/FZY		
				NUT, WASHER			
		503	354-020E	WASHER	STOPPER		
		504	354-001B	WASHER	P.S D3.1XD6X0.5T	j	
		505	354-080E	WASHER	STOPPER		
		506	352-025A	NUT	NYLON M3		
		507	354-020J	WASHER	STOPPER(2.6X4.8X0.5)		
		508	352-033A	NUT	NUT NYLON(M3)		
		511	354-080C	WASHER	STOPPER D2.6XD5X0.5T		
		512	354-080E	WASHER	STOPPER	NSP	
		513	354-080A	WASHER	STOPPER	NSP	
		514	354-080B	WASHER	STOPPER	NSP	
		516	354-033B	WASHER	STOPPER		
						[

1-2. 8mm Mechanism

RUN DATE: 95.09.27 NSP: Not Service Part

				NSP: No	ot Service Par
SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			ASSEMBLY PARTS S	ECTION	
	A00	412-133A	DECK	SUB ASSY D-21 (F/L)	
	A01	413-306C	DRUM	ASSY DD3SQ	
	A02	225-282A	BASE	ASSY LOADING	
	A30	219-021A	HOUSING	ASSY F/L (D-21)	
		• • • • • • • • • • • • • • • • • • • •	PARTS SECTION	N	
	001	414-156C	MOTOR	D-21 STATTOR, DRUM DM-21 DD1P	NSP
	002	413-352B	DRUM	SUB ASSY	
	003	515-655B	PWB ASSY!	DRUM SIGNAL	NSP
	004	255-148A	PLATE	SIGNAL GROUND	
	005	225-279A	BASE	ASSY DRUM	
	006	225-283A	BASE	SUB ASSY LOADING	
İ	007	225-285A	BASE	ASSY S/POST(T)	
	008	435-329A	GEAR	SUB ASSY LOADING(T)	
	009	435-327A	GEAR	CAM	
	010	435-332A	GEAR	SUB ASSY LOADING(S)	
	011	225-288A	BASE	ASSY S/POST(S)	
	012	657-031A	SENSOR	ASSY LED	1
	013	333-264A	LEVER	ASSY DRIVE	
	014	255-058A	PLATE	L/BASE	1
	015	321-535A	BRACKET	ASSY SLANT GUIDE	
	016	386-310A	ARM	ASSY SLANT ROLLER	
	017	386-313A	ARM	ASSY TENSION	
	018	333-254A	LEVER	ASSY BRAKE	
	019	375-015A	DISC	ASSY REEL(S)	
	020	222-019A	PROTECTOR	T/BAND	
	021	321-534A	BRACKET	SENSOR	
	022	386-307A	ARM	ASSY IDLER	
	023	435-323A	GEAR	ASSY DRIVE	i
	024	452-054A	BELT	REEL DRIVE (YAMAUCHI)	ļ
	025	322-051A	SUPPORTER	CST	
	026	657-032A	SENSOR	ASSY END	
	027	338-093A	BRAKE	ASSY SOFT	İ
	028	431-028A	IDLER	BELT	
	029	445-005A	SPACER	CAM GEAR	
	030	435-334A	GEAR	ASSY CONVERSION	
	040	414-137B	MOTOR	ASSY LOADING	
	041	313-041B	CHASSIS	ASSY MAIN(F/L)	NSP
	042	338-104A	BRAKE	CLUTCH	Nor
	043	321-533A	BRACKET	RECOG S/W	
	044	515-680A	PWB ASSY!	ASSY JUNCTION	
	045	375-016A	DISC	ASSY REEL(T)	
	046	324-823A	HOLDER	SHAFT	
	047	333-267A	LEVER	ASSY T/UP	
	049	435-321A	GEAR	MIDDLE	
	050	435-348A	GEAR	ASSY TRANSFER	
	050	414-141A	MOTOR	D-21 CAPSTAN MOTOR GSD	
	052	386-319A	ARM	ASSY PINCH	
	UJE	WU-013A	ALTIM	ASST PINON	<u></u>

RUN DATE: 95.09.27 NSP: Not Service Part

S AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
	053	333-271A	LEVER	ASSY PINCH	NSP
	054	333-269A	LEVER	ASSY MODE	1.0.
	056	504-476A	PWB	MODE S/W	
1	057	435-347A	GEAR	ASSY MODE	
	058	442-486A	SPRING	T/UP ARM(C)	
	059	386-316A	ARM	ASSY T/UP	
	060	352-028A	NUT	T/UP ARM(A)	
	061 352-030A NUT		T/UP ARM(B)		
	062	423-483A	SHAFT	ASSY WORM(L)	
	100	333-323A	LEVER	ASSY LOADING (L)	NSP
	101	257-058A	PLATE	GEAR	
	102	435-399A	GEAR	A	
	103	435-401A	GEAR	c	
	104	435-400A	GEAR	В	
	105	435-402A	GEAR	D	
	106	225-329A	BASE	SIDE (L)	
	107	257-057A	PLATÉ	SIDE BASE	
	108	414-162A	MOTOR	ASSY HOUSING	
	110	577-014A	PRISM	END SENSOR	
	111	225-332A	BASE	ASSY LOADING	
	112 257-060A PLATE		ASSY BASE		
	1 1 1		BASE	SIDE (R)	
	114	333-319A	LEVER	switch	NSP
	115	333-320A	LEVER	DOOR	NSP
	116	442-593A	SPRING	LOCK(L)	
	117	333-318A	LEVER	LOCK	NSP
	118	333-322A	LEVER	ASSY LOADING (R)	NSP
	119	256-889A	PLATE	CGND	
			SCREW		
	400	353-078B	SCREW	MACHINE+2X9	
	401	353-152A	SCREW	PS (M1.7X2)	
	402	353-153A	SCREW	PS (M2X3)	
	403	353-153B	SCREW	PS(M2X4)	
	404	353-153C	SCREW	PS (M2X5)	
	405	353-153D	SCREW	PS (M2X6)	
	407	353-091C	SCREW	SPECIAL M	
	408	1MFU0201418	FLAT HEAD MACHINE SCREW PREC 1	D 2.0 L 4.0 MSWR3/FZY	
			NUT, WASHER		
	500	354-101A	WASHER	SLIDE (1.5TX3.0X0.13)	
	501	354-099A	WASHER	STOP(1.25X3.0X0.25)	
	501	354-099B	WASHER	STOP(1.25X3.0X0.25)	
	502	354-104A	WASHER	STOP (2.2X5.0X0.25)	
	520	354-048E	WASHER	PS+D6XD2.6XT0.5	
	521	354-120A	WASHER	REEL STOP	
	I				

2. Cabinet & Main Frame Section

RUN DATE: 95.09.27
NSP: Not Service Part

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			ASSEMBLY PARTS	SECTION	
Τ	A40	315-314N	FRAME	ASSY MAIN	NSP
	A41	3501R-0249A	BOARD ASSY	KEYBOARD 2NDDD1S	
	A42	3501R-0248A	BOARD ASSY	TIMER 2NDDD1S	
	A43	258-722K	PANEL	ASSY FRONT	
-	A44	3501R-0247B	BOARD ASSY	SMPS	
	A45	501-522A	MODULE	PRE AMP ASSY	
	A46	3501R-0245D	BOARD ASSY	MAIN	
	A47	3501R-0251A	BOARD ASSY	8MM PRE-AMP	
	A48	3501R-0246A	BOARD ASSY	8MM MAIN	
	1		PARTS SECT	ION	
<u> </u>	250	217-472C	CASE	ТОР	T
	250	321-526A	BRACKET	HOUSING	
	260	315-300B	FRAME	MAIN	NSP
	262	257-061A	PLATE	GND (FTZ)	NSP
l	263	324-976A	HOLDER	PWB	NSP
	275	324-872A	HOLDER	DIGITRON	, noi
	278	273-116A	KNOB	TRACKING	
	280	258-717E	PANEL	FRONT	NSP
	1	220-075F	COVER	ASSY DOOR	NOF
	282			CST	
	283	226-104D	DOOR	DOOR	
	284	442-469A	SPRING	1	
	288	524-013A	MAGNET	ASSY DOOR	
	289	321-718A	BRACKET	ASSY COVER DOOR	
	290	321-719A	BRACKET	ASSY DAMPER	
	291	435-465B	GEAR	ASSY DAMPER(T;60)	
	300	681-951A	CORD	H03VVH2-F 2X0.75MM LP21R/PE221	
	320	258-596G	PANEL	ASSY DISTRIBUTOR	
	321	257-006A	PLATE	BOTTOM GROUND	
	330	221-834A	COVER	BOTTOM	
	340	226-064J	DOOR	CST 8MM	1
	341	442-591A	SPRING	DOOR	1
	342	340-088A	HOLDER	ASSY P/AMP 8MM	
			SCREW		
	452	353-046C	SCREW	(3X10 FZMY)	
	452	353-051A	SCREW	SPECIAL(3X10 FZMY)	
	459	353-046C	SCREW	(3X10 FZMY)	
	462	353-136A	SCREW	SPECIAL(4.6X12.5 FBK)	
	472	353-090A	SCREW	SPECIAL TP	

3. Packing Accessory Section

RUN DATE: 95.09.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	480-657D	INSTRUCTION ASSY		
		802	290-371A	BOX CARTON		
		803	283-217A	PACKING		
ļ		804	291-002D	SHEET CUSHION		NSP
		808	534-008C	BATTERY	AAAM(R03) 1.5V 1PAIR(LOCAL)	',0'
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

4. Remote Control Section

RUN DATE: 95.09.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900 597-121E REMOTE CONTROL		REMOTE CONTROL	2ND D/DECK ASSY	
		901	236-558A	WINDOW	FILTER	NSP
		902	220-084A COVER D/D3 R/C 217-485J CASE TOP	D/D3 R/C	NSP	
		903		1 ' '	NSP	
l		904	275-699C	BUTTON	2ND D/DECK	NSP
		905	275-612A	BUTTON	RUBBER VHS (R/C)	NSP
		906	275-611C	BUTTON	RUBBER 8MM	NSP
		907	515-824E	PWB ASSY!	REMOCON	NSP
ŀ		908	442-611A SPRING	442-611A SPRING C	COIL (R/C)	NSP
		909	217-486D	CASE	ВОТТОМ	NSP
		910	221-857D	COVER	BATTERY	.,,,,
		911	477-054A	RUBBER	BUMPON	NSP

5. Fixture Section

RUN DATE: 95.09.27 NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		FIX FIX1 FIX2	960-015J 232-972A 515-789A	FIXTURE BOARD ASSY PWB ASSY	SVC FIXTURE SVC FIXTURE FIXTURE	

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	С	J	K	М	N	Z	Р	Α
%	±2	±5	±10	±20	±30	+80 -20	+100 10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			CAPA	ACITOR
			- OAI 7	
		C001	0CN2230H948	0.022M 25V ZF TA26
		C002	0CN1040K948	0.1M 50V Z.F TA26
		C003	0CN2230H948	0.022M 25V Z F TA26
		C004	0CN1040K948	0.1M 50V Z.F TA26
	ĺ	C005	0CN1040K948	0.1M 50V Z.F TA26
		C006	0CN2230H948	0.022M 25V Z F TA26
	ļ	C007	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
	l	C008	0CN2230H948	0.022M 25V Z F TA26
		C009	OCN2230H948	0.022M 25V Z F TA26
l		C010	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C011	0CN1520F668	1500P 16V M X TA26
		C012	0CX3300K408	33P 50V J SL TA26
		C013	0CN2230H948	0.022M 25V Z F TA26
ļ		C014	0CN2710K518	270P 50V KB TA26
		C015	0CE3344K638	0.33M SRA 50V M FM5 TP(5)
		C016	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
	1	C017	0CE4764F638	47M SRA/SS 16V M FM5 TP(5) 0.022M 25V Z F TA26
		C018	0CN2230H948 0CX1000K408	10P 50V JSL TA26
l		C019		24P 50V JSL TA26
		C020	0CX2400K408	0.01M 16V M Y TA26
1		C021	0CN1030F678	22P 50V J SL TP26
		C022	0CX2200K408 0CN1030F678	0.01M 16V M Y TA26
1		C023		22P 50V J SL TP26
1		C024	0CX2200K408	15P 50V J SL 1720
1		C025	0CX1500K408	18P 50V JSL TA26
		C026	0CX1800K408	0.01M 16V M Y TA26
		C027	0CN1030F678 0CX1200K408	12P 50V JSL TA26
1		C028 C029	0CC0600K015	6P 50V C NP0 TS
1		C030	0CC000K013	33P 50V JSL TA26
1		C030	0CA3300K408	47M SRA/SS 16V M FM5 TP(5)
		C031	0CN2230H948	0.022M 25V Z F TA26
1		C032	0CX2400K408	24P 50V J SL TA26
1		C034	0CN1040K948	0.1M 50V ZF TA26
1		C201	0CN2230H948	0.022M 25V Z F TA26
1		C202	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C203	0CN1030F678	0.01M 16V M Y TA26
1		C204	0CN1030F678	0.01M 16V M Y TA26
1		C205	0CX2700K408	27P 50V J SL TA26
1		C206	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
1		C207	0CN1030F678	0.01M 16V M Y TA26
		C208	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C209	0CQ4734K409	0.047U 50V J POLY TE TP

s	ΔΙ	LOCA NO	PART NO(GS)	SPECIFICATION
	<u> </u>			
		C210	0CQ1044K409	0.1U 50V J POLY TE TP 4.7M SRA 50V M FM5 TP(5)
		C211	0CE4754K638 0CN1210K518	120P 50V KB TA26
i		C212 C213	0CN1210K518	150P 50V KB TA26
		C213	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C215	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C216	0CN4720F668	4700P 16V M X TA26
		C217	0CQ4734K409	0.047U 50V J POLY TE TP
		C218	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C219	0CQ2234K409	0.022U 50V J POLY TE TP
		C220	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
Ì		C221	0CQ4734K409	0.047U 50V J POLY TE TP
		C222	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
١		C223	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C224	0CE1064F638	10M SRA 16V M FM5 TP(5)
	1	C225	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C226	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C227	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
l	1	C228	0CQ4734K409	0.047U 50V J POLY TE TP
1		C229	0CN1030F678	0.01M 16V M Y TA26
		C230	0CQ1221N409	0.0012U 100V J POLY TP
1		C231	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
1		C232	0CQ2234K409	0.022U 50V J POLY TE TP
		C233	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C234	0CQ2234K409	0.022U 50V J POLY TE TP 47M SMS 16V M FM5 TP5
	1	C235	0CE4766F638 0CN1030F678	0.01M 16V M Y TA26
	1	C236 C237	0CN1030F678	0.01M 16V M Y TA26
1		C237	0CE4766F638	47M SMS 16V M FM5 TP5
		C239	0CC2400K415	24P 50V J NPO TP
1	1	C240	0CC2200K415	22P 50V J NPO TS
		C240	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C242	0CE4766F638	47M SMS 16V M FM5 TP5
		C243	0CN2230H948	0.022M 25V Z F TA26
	1	C244	0CN1020K518	1000P 50V KB TA26
		C245	OCN1020K518	1000P 50V KB TA26
		C246	0CN1030F678	0.01M 16V M Y TA26
		C247	0CN1030F678	0.01M 16V M Y TA26
		C248	0CN1030F678	0.01M 16V M Y TA26
		C249	0CN1030F678	0.01M 16V M Y TA26
1		C250	0CE2273C638	220M SRE 6.3V M FM5 TP(5)
1		C251	0CN1030F678	0.01M 16V M Y TA26
		C252	0CE4766F638	47M SMS 16V M FM5 TP5
1		C253	0CN1030F678	0.01M 16V M Y TA26
		C254	624-027A	GOLD 0.047F-5.5V D13.0X8.5 NEC

Γ.	Т	T	T		_	_		1	T	RUN DATE : 95.09.27
s	AL	LOCA.NO				s	AL	LOCA.NO	PART NO(GS	SPECIFICATION
İ	ļ	C255	0CE4766F638	47M SMS 16V M FM5 TP5		1		C327	0CN1030F678	0.01M 16V M Y TA26
		C256	0CE1074F638	100U SRA 16V M FM5 TP(5)	1	1		C328	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
		C257	0CE2273C638	220M SRE 6.3V M FM5 TP(5)		1		C329	0CE4766F638	47M SMS 16V M FM5 TP5
		C258	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	1			C330	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
1		C259	0CQ8221N409	0.0082U 100V J POLY TP				C332	0CX2400K408	24P 50V J SL TA26
		C260	0CE4766F638	47M SMS 16V M FM5 TP5		Į		C333	0CN8200K518	82PF 50V K B TA26
		C261	0CN1030F678	0.01M 16V M Y TA26		١.		C334	0CE4766F638	47M SMS 16V M FM5 TP5
		C262	0CE4766F638	47M SMS 16V M FM5 TP5				C335	0CN1030F678	0.01M 16V M Y TA26
		C263	0CN2210K518	220P 50V KB TA26				C336	0CN4710K518	470P 50V KB TA26
		C264	0CN1030F678	0.01M 16V M Y TA26		1		C337	0CN1030F678	0.01M 16V M Y TA26
		C266	0CN1040K948	0.1M 50V ZF TA26		ļ		C338	0CN2230H948	0.022M 25V Z F TA26
		C267	0CN1030F678	0.01M 16V M Y TA26				C339	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
1 1		C268	0CE4766F638	47M SMS 16V M FM5 TP5	1			C340	0CN4730K948	0.047M 50V Z F TA26
		C271	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		1 1		C341	0CE1043K638	0.1M SRE 50V M FM5 TP(5)
		C272	0CN4730K948	0.047M 50V Z F TA26				C342	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
11		C273	0CE4766F638	47M SMS 16V M FM5 TP5			ĺ	C343	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
ll		C275	0CN4730K948	0.047M 50V Z F TA26		1		C344	0CE2253K638	3.3W SDE SOV MEMS TP(5)
		C276	0CN1010K518	100P 50V KB TA26				C345	1	2.2M SRE 50V M FM5 TP(5)
		C277	0CN1010K518	100P 50V KB TA26				C349	0CE1064F638	10M SRA 16V M FM5 TP(5)
]		C278	0CE4766F638	47M SMS 16V M FM5 TP5				C350	0CX3900K408	39P 50V J SL TA26
		C279	0CN1030F678	0.01M 16V M Y TA26				C351	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
1	i	C280	0CN1040K948	0.1M 50V ZF TA26		1 1		C352	0CN1020K518	1000P 50V KB TA26
		C281	0CE4766F638	47M SMS 16V M FM5 TP5				C352	0CE2246K638	0.22M SMS 50V M FM5 TP(5)
		C298	0CE4766K638	47M SMS 50V M FM5 TP			ļ	C354	0CN1510K518	150P 50V KB TA26
i		C299	0CN1040K948	0.1M 50V ZF TA26		1		C355	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
1		C2A1	0CN1040K948	0.1M 50V ZF TA26		1		C355 C357	0CN2230H948	0.022M 25V Z F TA26
		C2A2	0CN1040K948	0.1M 50V ZF TA26			-	C358	0CN1030F678	0.01M 16V M Y TA26
		C2A3	0CN1030F678	0.01M 16V M Y TA26				C359	0CN1030F678	0.01M 16V M Y TA26
		C301	0CN1030F678	0.01M 16V M Y TA26					0CE4775F638	470M SR 16V M FM5 TP(5)
	- 1	C302	0CN1030F678	0.01M 16V M Y TA26	H	i		C360	0CN1030F678	0.01M 16V M Y TA26
		C303	0CX4700K408	47P 50V J SL TA26	11			C361	0CX0100K608	1.0P 50V M SL TA(26)
		C308	0CE4766F638	47M SMS 16V M FM5 TP5				C362	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
	- [C30B	0CN1040K948	0.1M 50V ZF TA26	H			C363	0CN1210K518	120P 50V KB TA26
	- 1	C30C	0CN1040K948	0.1M 50V ZF TA26				C364	0CX3300K408	33P 50V JSL TA26
	- 1		0CN1030F678	0.01M 16V M Y TA26	Н			C365	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C30F	0CE4766F638	47M SMS 16V M FM5 TP5	1 1	1	-	C366	0CN1040K948	0.1M 50V ZF TA26
			0CN1020K518	1000P 50V KB TA26		İ		C367	0CQ6831N409	0.068U 100V JPOLY TP
			0CN1030F678	0.01M 16V M Y TA26	ll	ı		C368	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
- 1		1	0CX3300K408	33P 50V J SL TA26				C369	0CE2246K638	0.22M SMS 50V M FM5 TP(5)
	- 1		0CC0500K115	5P 50V D NP0 TS				C370	0CE4775F638	470M SR 16V M FM5 TP(5)
			0CN1030F678	0.01M 16V M Y TA26	1			C371	0CN1030F678	0.01M 16V M Y TA26
i		1	0CN1030F678	0.01M 16V M Y TA26		- 1	-		0CE1064F638	10M SRA 16V M FM5 TP(5)
			0CN1030F678						0CN4710K518	470P 50V KB TA26
			0CX3300K408	0.01M 16V M Y TA26 33P 50V JSL TA26					0CX2400K408	24P 50V J.SL TA26
1			0CE4766F638	47M SMS 16V M FM5 TP5					0CE4766F638	47M SMS 16V M FM5 TP5
			0CN1030F678	0.01M 16V M Y TA26					0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
	- 1	I	0CE4766F638	47M SMS 16V M FM5 TP5				1	0CN2230H948	0.022M 25V Z F TA26
		ı	0CN1030F678	0.01M 16V M Y TA26					0CX1800K408	18P 50V JSL TA26
			0CN4710K518	470P 50V KB TA26					0CE4754K638	4.7M SRA 50V M FM5 TP(5)
			0CN1030F678				- 1		0CN4730K948	0.047M 50V Z F TA26
	- 1		0CN8200K518	0.01M 16V M Y TA26					0CN1030F678	0.01M 16V M Y TA26
		!	ı	82PF 50V K B TA26				* · · ·	0CN1030F678	0.01M 16V M Y TA26
			0CN1030F678	0.01M 16V M Y TA26					0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
			0CE4766F638	47M SMS 16V M FM5 TP5			- 1		0CN1030F678	0.01M 16V M Y TA26
	- 1		0CX1000K408	10P 50V J SL TA26					0CX1000K408	10P 50V JSL TA26
	- 1		0CX1200K408	12P 50V J SL TA26				C3A1	0CN1030F678	0.01M 16V M Y TA26
	- 1		0CN1030F678	0.01M 16V M Y TA26				C3A2 (0CN1030F678	0.01M 16V M Y TA26
			0CE4766F638	47M SMS 16V M FM5 TP5					0CE4766F638	47M SMS 16V M FM5 TP5
			0CN1030F678	0.01M 16V M Y TA26			1		OCN2230H948	0.022M 25V Z F TA26
			OCN1030F678	0.01M 16V M Y TA26			- [+			0.01M 16V M Y TA26
- 1	ł		OCN1030F678	0.01M 16V M Y TA26			10		I .	0.01M 16V M Y TA26
		I.		0.01M 16V M Y TA26					OCN1040K948	0.1M 50V Z F TA26
	1	C326 C	DCN1030F678	0.01M 16V M Y TA26			- 0		CE4744K638	0.47M SRA 50V M FM5 TP(5)
					L					

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s	٩L	LOCA.NO	PART NO(GS)	SPECIFICATION		s	AL LO	CA.NO	PART NO(GS)	SPECIFICATION
		C3B0	0CE4744K638	0.47M SRA 50V M FM5 TP(5)			C	3K2	0CQ8221N409	0.0082U 100V J POLY TP
	1	C3B1	0CN2230H948	0.022M 25V Z F TA26	l			401	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3B2	0CE2254K638	2.2M SRA 50V M FM5 TP(5)	1		l c	2402	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3B3	0CN1210K518	120P 50V KB TA26		- 1		2403	0CN1040K948	0.1M 50V ZF TA26
1		C3B4	0CC0600K015	6P 50V C NPO TS	ł	ļ		2404	OCN1040K948	0.1M 50V ZF TA26
		C3B5	0CX1000K408	10P 50V JSL TA26	- 1	-		2405	0CE1064F638	10M SRA 16V M FM5 TP(5)
				47M SMS 16V M FM5 TP5	- 1			2406	0CE1064F638	10M SRA 16V M FM5 TP(5)
li		C3B6	0CE4766F638				1 1	2407	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3B7	0CN1030F678	0.01M 16V M Y TA26			1			10M SRA 16V M FM5 TP(5)
1 1		C3B8	0CC3900K415	39P 50V J NPO TP		ļ		2408	0CE1064F638	
1		C3B9	0CN2230H948	0.022M 25V Z F TA26	1	- 1	1 7	2409	0CE2266F638	22M SMS 16V M FM5 TP5
		C3C0	0CN1030F678	0.01M 16V M Y TA26				C410	0CN1040K948	0.1M 50V Z F TA26
1		C3C1	0CN1040K948	0.1M 50V ZF TA26				2411	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3C2	0CE4766F638	47M SMS 16V M FM5 TP5				C412	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C3	0CN2230H948	0.022M 25V Z F TA26				C413	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C4	0CE1044K638	0.1M SRA 50V M FM5 TP(5)			1	C414	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C5	0CN1030F678	0.01M 16V M Y TA26		ļ	. 1	C415	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C6	0CN1030F678	0.01M 16V M Y TA26				C416	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3C7	0CE1064F638	10M SRA 16V M FM5 TP(5)			1 1	C417	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C8	0CN1030F678	0.01M 16V M Y TA26				C418	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3C9	0CN1040K948	0.1M 50V ZF TA26				C419	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3E0	0CX1500K408	15P 50V J SL TA26				C420	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3E1	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	11		(C422	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3E2	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			(C423	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3E3	0CE4766F638	47M SMS 16V M FM5 TP5	ll			C424	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3E4	0CN1040K948	0.1M 50V ZF TA26	1 1		(C425	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3E5	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			(C426	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1 1		C3E6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			(C427	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3E7	0CN2230H948	0.022M 25V Z F TA26			(C428	0CE2274F638	220M SRA 16V M FM5 TP(5)
		C3E8	0CE4766F638	47M SMS 16V M FM5 TP5			(C429	0CE2266F638	22M SMS 16V M FM5 TP5
		C3E9	0CN3310K518	330P 50V K B TA26			(C430	0CE3366F638	33M SMS 16V M FM5 TP(5)
1		C3F0	0CN1030F678	0.01M 16V M Y TA26	11		(C431	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3F1	0CX2200K408	22P 50V J SL TP26			(C432	0CE1064F638	10M SRA 16V M FM5 TP(5)
1 1		C3F2	0CE1044K638	0.1M SRA 50V M FM5 TP(5)	1 1		(C433	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1		C3F3	0CN1010K518	100P 50V KB TA26				C434	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3F4	0CX1200K408	12P 50V J SL TA26	H		(C435	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1		C3F5	0CX6800K408	68P 50V J SL TA26	H		1	C436	0CE2274F638	220M SRA 16V M FM5 TP(5)
		C3F6	0CN1030F678	0.01M 16V M Y TA26				C437	0CN2230H948	0.022M 25V Z F TA26
		C3F7	0CN1010K518	100P 50V KB TA26	11		(C438	0CN2230H948	0.022M 25V Z F TA26
		C3F8	0CN1020K518	1000P 50V KB TA26	H		1 1	C439	0CE2274F638	220M SRA 16V M FM5 TP(5)
		C3F9	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	1 1			C440	0CE4766F638	47M SMS 16V M FM5 TP5
		C3G0	0CN8200K518	82PF 50V K B TA26	11		1	C441	0CN1040K948	0.1M 50V ZF TA26
		C3G1	0CN3910K518	390P 50V KB TA26	11			C442	0CQ1231N409	0.012U 100V J POLY TP
	i	C3G2	0CE1064F638	10M SRA 16V M FM5 TP(5)	11		;	C443	0CQ1031N409	0.01UF 100V J PE TP
		C3G3	0CN1520F668	1500P 16V M X TA26	11			C444	0CN1030F678	0.01M 16V M Y TA26
		C3G4	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)				C445	0CE4766F638	47M SMS 16V M FM5 TP5
		C3G5	0CE4766F638	47M SMS 16V M FM5 TP5	Н		'	C446	0CQ1031N409	0.01UF 100V J PE TP
		C3G6	0CN2230H948	0.022M 25V Z F TA26				C447	0CN1030F678	0.01M 16V M Y TA26
		C3G7	0CE4766F638	47M SMS 16V M FM5 TP5				C448	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C3G8	0CN2230H948	0.022M 25V Z F TA26			1 I	C449	0CQ1031N409	0.01UF 100V J PE TP
		C3G9	0CN1030F678	0.01M 16V M Y TA26			1 1	C450	0CE2266F638	22M SMS 16V M FM5 TP5
		C3H0	0CN4710K518	470P 50V KB TA26			1 1	C451	0CE1064F638	10M SRA 16V M FM5 TP(5)
	Ì	C3H1	0CE4766F638	47M SMS 16V M FM5 TP5			1 1	C452	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3H2	0CN2230H948	0.022M 25V Z F TA26				C453	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H3	0CN2230H948	0.022M 25V Z F TA26				C454	0CN1040K948	0.1M 50V ZF TA26
		C3H4	0CE4766F638	47M SMS 16V M FM5 TP5				C455	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H5	0CC0400K015	4P 50V C NP0 TS				C456	0CN1040K948	0.1M 50V Z.F TA26
		C3H6	0CX2200K408	22P 50V J SL TP26				C457	0CQ8221N409	0.0082U 100V J POLY TP
1		C3H7	0CE4754K638	4.7M SRA 50V M FM5 TP(5)				C458	0CE2266F638	22M SMS 16V M FM5 TP5
		C3H8	0CN1030F678	0.01M 16V M Y TA26				C459	0CE3366F638	33M SMS 16V M FM5 TP(5)
		C3H9	0CN1040K948	0.1M 50V ZF TA26				C460	0CN3910K518	390P 50V KB TA26
1		C3K0	0CE1064F638	10M SRA 16V M FM5 TP(5)				C461	0CQ5631N409	0.056U 100V J POLY TP
1		C3K1	0CX4700K408	47P 50V J SL TA26				C462	0CQ3331N409	0.033U 100V J POLY TP
L_		1	1		JL				<u> </u>	

Γ	T		T		٦ ,	_			1	RUN DATE : 95.09.27
S	AL	 	PART NO(GS)]	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C463	0CN2210K518	220P 50V KB TA26		•		C4B4	0CN1020K518	1000P 50V KB TA26
	1	C464	0CN1030F678	0.01M 16V M Y TA26		ŀ		C4B5	0CN1020K518	1000P 50V KB TA26
1		C465	0CE1074F638	100U SRA 16V M FM5 TP(5)				C4B6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1	1	C466	0CE4754K638	4.7M SRA 50V M FM5 TP(5)				C4B7	0CN4710K518	470P 50V KB TA26
Ī		C467	0CQ1031N409	0.01UF 100V J PE TP	11			C4B8	0CN1030F678	0.01M 16V M Y TA26
		C468	0CE1076F638	100M SMS 16V M FM5 TP(5)				C4B9	0CK3320K515	3300P 50V KB TS
		C469	0CN2230H948	0.022M 25V Z F TA26] [C4C0	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C470	0CE1064F638	10M SRA 16V M FM5 TP(5)				C4C1	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C471 C472	0CE1064F638	10M SRA 16V M FM5 TP(5)				C4C2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C472	0CQ1231N409 0CN1030F678	0.012U 100V JPOLY TP	11			C4C3	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C474	0CE4754K638	0.01M 16V M Y TA26 4.7M SRA 50V M FM5 TP(5)	11			C4C4	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C475	0CN2710K518	270P 50V KB TA26	11			C4C5	0CN4710K518	470P 50V KB TA26
		C476	0CE4744K638	0.47M SRA 50V M FM5 TP(5)				C4C6	0CN1030F678	0.01M 16V M Y TA26
		C477	0CN1030F678	0.01M 16V M Y TA26				C4C7	0CK3320K515	3300P 50V KB TS
		C478	0CE1064F638	10M SRA 16V M FM5 TP(5)	11			C4C8	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C479	0CN1030F678	0.01M 16V M Y TA26	11	İ		C4C9 C4E0	0CN1020K518	1000P 50V KB TA26
		C480	0CN1030F678	0.01M 16V M Y TA26	11		-		0CN1020K518	1000P 50V KB TA26
		C481	0CE1074F638	100U SRA 16V M FM5 TP(5)				C4E1 C4E2	0CE4766F638 0CE2254K638	47M SMS 16V M FM5 TP5
		C482	0CN1030F678	0.01M 16V M Y TA26	11			C4E3	0CE3366F638	2.2M SRA 50V M FM5 TP(5)
		C483	0CN1040K948	0.1M 50V ZF TA26	11			C4E4	0CN1520F668	33M SMS 16V M FM5 TP(5)
		C484	0CN1030F678	0.01M 16V M Y TA26	1			C4E5	0CN2220F668	1500P 16V M X TA26 2200P 16V M X TA26
		C485	0CE2274F638	220M SRA 16V M FM5 TP(5)	11			C4E6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
]		C486	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			ı	C4E7	0CN1020K518	1000P 50V KB TA26
İ		C487	0CN1030F678	0.01M 16V M Y TA26	11		ļ	C4E8	0CN1020K518	1000P 50V KB TA26
	İ	C488	0CQ1231N409	0.012U 100V JPOLY TP		- 1	ĺ	C4E9	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C489	0CE1064F638	10M SRA 16V M FM5 TP(5)	11		1	C4F0	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C490	0CE1064F638	10M SRA 16V M FM5 TP(5)			ł	C4F1	0CX3300K408	33P 50V J SL TA26
		C491	0CQ1031N409	0.01UF 100V J PE TP	11			C4F2	0CN1030F678	0.01M 16V M Y TA26
		C492 C493	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	11			C4F3	0CN1220F668	1200P 16V M X TA26
		C493 C494	0CQ1031N409	0.01UF 100V J PE TP		- 1		C4F4	0CE4766F638	47M SMS 16V M FM5 TP5
		C495	0CQ1031N409 0CN2230H948	0.01UF 100V J PE TP	11			C4F5	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C496	0CE1054K638	0.022M 25V Z F TA26 1.0M SRA/SS50V M FM5 TP(5)				C4F6	0CN2230H948	0.022M 25V Z F TA26
			0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)				C4F7	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	-	- 1	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	li	-		C4F8	0CN1220F668	1200P 16V M X TA26
ĺ			0CE4766F638	47M SMS 16V M FM5 TP5	1			C4G0	0CE1064F638	10M SRA 16V M FM5 TP(5)
	Ī	i	0CN1030F678	0.01M 16V M Y TA26		ļ		C4G1 C4G2	0CE1064F638	10M SRA 16V M FM5 TP(5)
			0CE4766F638	47M SMS 16V M FM5 TP5(VHS)					0CN2230H948 0CN1030F678	0.022M 25V Z F TA26
	İ	C4A1	0CN1030F678	0.01M 16V M Y TA26(8mm)					0CN1030F678 0CN1040K948	0.01M 16V M Y TA26
	ı	C4A2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)					0CN1040K948	0.1M 50V ZF TA26
		C4A3	0CN1030F678	0.01M 16V M Y TA26(8mm)					0CX1800K408	0.1M 50V Z.F. TA26 18P 50V J.SL TA26
	-		0CN1510K518	150P 50V K B TA26(VHS)			- 1		0CX2200K408	18P 50V J.SL TA26 22P 50V J.SL TP26
İ		-	0CE1054K638	1M SRA/SS50V M FM5 TP(5)(8mm)					0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
			0CN1510K518	150P 50V K B TA26(VHS)				4	0CN1040K948	0.1M 50V ZF TA26
		_	0CE1074F638	100U SRA 16V M FM5 TP(5)(VHS)					0CN1040K948	0.1M 50V Z F TA26
			0CX3300K408	33P 50V J SL TA26(8mm)					0CN1020K518	1000P 50V KB TA26
			0CN1020K518	1000P 50V KB TA26(8mm)		1			0CN1040K948	0.1M 50V ZF TA26
			0CN1040K948 0CN1020K518	0.1M 50V ZFTA26(VHS)	- {		- 1		0CN1030F678	0.01M 16V M Y TA26
	- 1		0CE1054K638	1000P 50V KB TA26				1	0CN1040K948	0.1M 50V ZF TA26
	- 1		0CN1040K948	1M SRA/SS50V M FM5 TP(5)(8mm) 0.1M 50V Z F TA26(VHS)					0CE4766F638	47M SMS 16V M FM5 TP5
		_ [í	0.1M 50V Z F TA26(VHS)					0CN1040K948	0.1M 50V ZF TA26
	- 1		0CN2220F668	2200P 16V M X TA26(8mm)			- 1		0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	- 1		0CN1520F668	1500P 16V M X TA26(8mm)					0CE4766F638	47M SMS 16V M FM5 TP5
			0CE3366F638	33M SMS 16V M FM5 TP(5)(8mm)	-	İ			0CN1040K948	0.1M 50V Z F TA26
		1		0.01M 16V M Y TA26(VHS)						0.01M 16V M Y TA26
1				2.2M SRA 50V M FM5 TP(5)(8mm)			- 1			0.1M 50V ZF TA26
		C4B2 (0CE4766F638	47M SMS 16V M FM5 TP5 (VHS)			- 1			0.1M 50V ZF TA26
	- 1		DCE4754K638	4.7M SRA 50V M FM5 TP(5)						0.1M 50V ZF TA26
	- 4	_	DCN1040K948	0.1M 50V Z F TA26				· I.		0.1M 50V Z.F TA26 47M SMS 16V M FM5 TP5
	'	C4B4 (100U SRA 16V M FM5 TP(5)	j					0.01M 16V M Y TA26
					L	\perp		`		0.01M 10V W 1 1AZ0

			DART NO(CC)	SPECIFICATION	s	Al	LOCA.NO	PART NO(GS)	SPECIFICATION
S	AL	LOCA.NO	PART NO(GS)		F	AL		`	
		C523	0CN4730K948	0.047M 50V Z F TA26	1		C703	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1	ļ l	C524	0CE4766F638	47M SMS 16V M FM5 TP5			C704	0CN1040K948	0.1M 50V ZF TA26
		C525	0CE4766F638	47M SMS 16V M FM5 TP5			C705	0CN1040K948	0.1M 50V ZF TA26
		C526	0CN6820F668	6800P 16V M X TA26			C707	0CN2230H948	0.022M 25V Z F TA26
1		C527	0CN1040K948	0.1M 50V ZF TA26			C709	0CN2230H948	0.022M 25V Z F TA26
1		C528	0CN1020K518	1000P 50V KB TA26			C710	0CE1074F638	100U SRA 16V M FM5 TP(5)
	ļ	C529	0CN6820F668	6800P 16V M X TA26	ı		C711	0CN2230H948	0.022M 25V Z F TA26
1		C530	0CN1040K948	0.1M 50V ZF TA26		1	C712	0CN1040K948	0.1M 50V ZF TA26
1		C531	0CN1020K518	1000P 50V KB TA26	1		C713	0CN1040K948	0.1M 50V ZF TA26
Į		C532	0CE4766F638	47M SMS 16V M FM5 TP5			C714	0CC1200K415	12P 50V JNP0 TS
		C533	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	-		C716	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
1		C534	0CN1040K948	0.1M 50V ZF TA26	1	1	C717	0CN4730K948	0.047M 50V Z F TA26
		C535	0CN1040K948	0.1M 50V ZF TA26	İ		C718	0CE4766F638	47M SMS 16V M FM5 TP5
	ļ	C536	0CE2266F638	22M SMS 16V M FM5 TP5			C719	0CN2230H948	0.022M 25V Z F TA26
		C537	0CN1030F678	0.01M 16V M Y TA26			C720	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
1		C538	0CN1030F678	0.01M 16V M Y TA26	i		C721	0CN6810K518	680P 50V KB TA26
		C539	0CK3320K515	3300P 50V KB TS			C722	0CE1074F638	100U SRA 16V M FM5 TP(5)
1	1	C540	0CK3320K515	3300P 50V KB TS	1	İ	C724	0CN2230H948	0.022M 25V Z F TA26
1		C540	0CK3320K515	3300P 50V KB TS			C725	0CX4700K408	47P 50V JSL TA26
		C541	0CE4766F638	47M SMS 16V M FM5 TP5	J		C726	0CE4766F638	47M SMS 16V M FM5 TP5
1		-	l .	47M SMS 16V M FM5 TP5	1		C727	0CN2230H948	0.022M 25V Z F TA26
l		C544	0CE4766F638				C728	0CX2200K408	22P 50V J SL TP26
		C545	0CN1040K948	0.1M 50V ZF TA26 0.1M 50V ZF TA26	1		C729	0CN2230H948	0.022M 25V Z F TA26
1	1	C546	0CN1040K948	1	1	1	C730	0CE4766F638	47M SMS 16V M FM5 TP5
		C547	0CN1030F678	0.01M 16V M Y TA26	ı			0CE2274F638	
1	İ	C548	0CN2710K518	270P 50V KB TA26	1		C740		220M SRA 16V M FM5 TP(5) 27P 50V J NP0 TP
		C549	0CQ8221N409	0.0082U 100V J POLY TP	1		C741	0CC2700K415	k.
		C550	0CN1020K518	1000P 50V KB TA26			C742	0CE4766F638	47M SMS 16V M FM5 TP5
	1	C551	0CN2230H948	0.022M 25V Z F TA26			C743	0CN2230H948	0.022M 25V Z F TA26
1		C552	0CE4766F638	47M SMS 16V M FM5 TP5	1	1	C744	0CE4766F638	47M SMS 16V M FM5 TP5
	ļ	C553	0CC1000K015	10P 50V C NPO TS		ı	C745	0CN1040K948	0.1M 50V ZF TA26
		C554	0CC1000K015	10P 50V C NP0 TS			C747	0CE4766F638	47M SMS 16V M FM5 TP5
		C555	0CN1040K948	0.1M 50V ZF TA26			C748	0CN1040K948	0.1M 50V ZF TA26
1		C556	0CN2230H948	0.022M 25V Z F TA26			C749	OCN3910K518	390P 50V KB TA26
1		C557	0CE4766F638	47M SMS 16V M FM5 TP5	1		C750	0CN3910K518	390P 50V KB TA26
		C558	0CN4710K518	470P 50V KB TA26			C751	0CQ6821N409	0.0068U 100V J POLY TP
1		C559	0CN4710K518	470P 50V KB TA26			C752	0CE1064F638	10M SRA 16V M FM5 TP(5)
1	1	C560	0CN1040K948	0.1M 50V ZF TA26			C753	0CQ6821N409	0.0068U 100V J POLY TP
		C561	0CN1040K948	0.1M 50V ZF TA26			C754	0CE1064F638	10M SRA 16V M FM5 TP(5)
	1	C562	0CQ4721N409	0.0047U 100V J POLY TP			C756	0CN2230H948	0.022M 25V Z F TA26
		C563	0CX1200K408	12P 50V J SL TA26	-	1	C757	0CE4766F638	47M SMS 16V M FM5 TP5
		C564	0CN1030F678	0.01M 16V M Y TA26			C759	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
1		C565	0CN1040K948	0.1M 50V ZF TA26	1		C760	0CN1040K948	0.1M 50V Z F TA26
		C566	0CN1030F678	0.01M 16V M Y TA26	1		C761	0CN4710K518	470P 50V KB TA26
		C567	0CN1030F678	0.01M 16V M Y TA26			C762	0CN4710K518	470P 50V KB TA26
		C568	0CN1030F678	0.01M 16V M Y TA26			C763	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C569	0CX5600K408	56P 50V J SL TA26		1	C764	0CN1040K948	0.1M 50V Z F TA26
		C601	0CN1040K948	0.1M 50V ZF TA26			C765	0CN1030F678	0.01M 16V M Y TA26
		C602	0CN1040K948	0.1M 50V ZF TA26	- [C766	0CC1200K415	12P 50V J NP0 TS
1		C603	0CX1800K408	18P 50V JSL TA26			C767	0CC1200K415	12P 50V J NP0 TS
		C604	0CN1040K948	0.1M 50V ZF TA26	-		C768	0CE4766F638	47M SMS 16V M FM5 TP5
		C605	0CE4754H638	4.7M SRA 25V M FM5 TP(5)			C769	0CN2230H948	0.022M 25V Z F TA26
		C606	0CE4766F638	47M SMS 16V M FM5 TP5	1		C770	0CE4766F638	47M SMS 16V M FM5 TP5
1		C607	0CE2264F638	22M SRA 16V M FM5 TP(5)			C772	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C608	0CN1020K518	1000P 50V KB TA26			C773	0CN2230H948	0.022M 25V Z F TA26
		C609	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	ı		C774	0CN1040K948	0.1M 50V Z F TA26
		C610	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	- 1		C775	0CN1040K948	0.1M 50V ZF TA26
		C611	0CE1054K638	2.2M SRA 50V M FM5 TP(5)			C776	0CN1040K948	0.1M 50V ZF TA26
		2	i i		J		C779	0CN1040K948 0CE2274F638	220M SRA 16V M FM5 TP(5)
		C612	0CN1010K518		١		1		1
		C613	0CN1040K948	0.1M 50V ZF TA26			C780	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
-		C614	0CN1040K948	0.1M 50V ZF TA26			C781	0CE4766F638	47M SMS 16V M FM5 TP5
		C615	0CN1020K518	1000P 50V KB TA26	-		C782	0CN1040K948	0.1M 50V Z F TA26
1		C616	0CN1040K948	0.1M 50V ZF TA26			C785	0CE4766F638	47M SMS 16V M FM5 TP5
<u> </u>						_1_	<u> </u>	<u> </u>	<u> </u>

SAL COCANO PART NO(SS) SPECIFICATION S. AL COCANO PART NO(SS) SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	٦г.	T	41 1 00		DART NO/OO	RUN DATE : 95.09.27
C882 OCH 1006/7679	H		 	· · · · · · · · ·		- -	-	AL LOCA	A.NO		SPECIFICATION
C883 CONTION(988) D.1M SDV ZF TA25 C801 C801 C0CH0096787 C805 CONTION(97878 D.01M 16W M Y TA26 C804 C0CH0096787 C907 C0CH0096787 C907 C0CH0096787 C907				1			-		-		
CG64 COX69006480 Sep				1			- 1				
C865 CCM1006F678 DOIM 16 M Y 1726 COSS COMPORTED BY SV J S. 1726 COSS COSS COMPORTED BY SV J S. 1726 COSS COSS COSS COSS COSS COSS COSS COS			1	_			ı				0.022U 50V K B 2.0X1.2 R/TP
CG88						11	-	I			
C813 CCH1096F278 O11M SPA W Y TASE C805 CCH2076F6788 C816 CCC1076F6788 C816 CCC1076F678 C817 CCC1076F678 C818 CCC1076F678 C818 CCC1076F678 C819 CCC2076F678 C819	ŀ							1			
Cell								- 1			27P 50V J COG 2.0X1.2 R/TP
Cells OCFI0647838 10M SRA 18V M FMS TP(5) OCFI074783 OCFI0747838 OCFI07478				1				1			
Caff OCC1221NAMP OCC03221NAMP	li		1	ľ					. 1		
Celt			1	1		11		3	- 1		1
C619			į	Į.		1 1			- 1		
C219											4/M SHA/SS 16V M FM5 TP(5)
C221 OCF105446938 1.0M SRASSSOV M FMS TP(6) C914 OCF10544693 OCF1054693 IOM SRASSSOV M FMS TP(6) C915 OCH3054693 IOM SRA 16V M FMS TP(5) C915 OCH3054693 OCH3054693 IOM SRA 16V M FMS TP(5) C916 OCH3054693 O			1 1	1				l l			
C221 OCH103K4638 1.0M SRASSSOV M FMS TPI6) C222 C223 C224			1					1			120P 50V J NPU 2.0X1.2 R/TP
C282 OCH1010K518 100P 50V K B TA26 C224 C224K638 C225 OCH1026K758 C325 C225 C245 C245 C245 C245 C245 C245 C2			C821		1.0M SRA/SS50V M FM5 TP(5)		f				0.1M SHA 50V M FM5 1P(5)
C223 OCE1096FG38 OCE1090FG38 OCE1090FG38 OCE1090FG38 OCE1090FG38 OCE1090FG38 OCE1090FG38 OCE1090FG38 OCE2090			C822		100P 50V KB TA26			- 1	- 1		0.000 LEOV & D.00V4 0.DED
C224 OCE476F683			C823					- 1	- 1		
C285 COL1030F678			C824	0CE4766F638	47M SMS 16V M FM5 TP5				- 1		
C226 CC21076FG38 CC22076FG38 C			C825								39P 50V LCOG 2 0V1 2 PCD
C827 C222 C222 C222 C222 C222 C222 C222			C826	0CE1076F638							
C828		ı	C827	0CE4766F638	47M SMS 16V M FM5 TP5			ī	- 1		0.22M SRA 50V M EMS TD/S
C329 CCE1076F638 100M SNS 16V M FMS TP(5) C2924 CCE2244K694 GCE224K694 GCE2244K694 GCCE2244K694 GCE2244K694 GCE2244K694 GCE2244K694 GCE2244K694 GCE224			1	0CX3300K408	33P 50V JSL TA26			1			0.022U 50V K R 2.0X1 2.R/TP
C830 OCE1076F638 J3P 50V J SL TA28 C925 OCH390K408 J3P 50V J SL TA28 C925 OCH390K408 J3P 50V J SL TA28 C925 OCH390K408 J3P 50V J SL TA28 C925 OCH390K408 J3P 50V J COG 2.0X1.2 R/TIP C926 C929 OCH390K408 J3P 50V J COG 2.0X1.2 R/TIP C927 OCE244K638 OCH1030K618 C927 OCE244K638 OCH1030K618 C927 OCE244K638 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030K618 C929 OCH1030F678 ONIT SC C930 OCH1030F678 ONIT SC C930 OCH1030F678 ONIT SC C930 OCH1030F678 ONIT SC C930 OCH1030F678 ONIT SC C930 OCH1030F678 ONIT SC C930 OCH1030F678 OCH1054K638 OCH1030K618 C929 OCH1030F678 OCH1054K638 OCH1030K618 C929 OCH1030F678 ONIT SC C930 OCH1030F678 OCH1054K638 OCH1030K618 C929 OCH1030F678 ONIT SC C930 OCH1030F678 OCH1030K618 OCH1030F678 OCH1030K618 OCH1030		ı		0CX2200K408	22P 50V J SL TP26						
C832 OCH090F678 OCH1090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH090F678 OCH1090	- 1	ı	ľ		100M SMS 16V M FM5 TP(5)			C924	1		
C835 OCH1076F638 100M SMS 16V M FMS TP(5) C926 OCH399K416 39E 50V J CGG 2 DX1 2 R/TP C836 OCH309K416 100P 50V K B TA26 C929 OCH309K416 30C DX1010K18 10P 50V C NPO TS C930 OCH100K18 10P 50V C				0CX3900K408	39P 50V JSL TA26						39P 50V J COG 2.0X1 2 B/TP
C835 OCE-1776C838 470M SR 58 58 74 M FMS TP(5) C928 CC1204K4538 C826 C0C1000K015 100P 50V K B TA26 C929 OCE-4784F838 C0C1000K015 10P 50V C NPO TS C929 OCE-4784F838 C0C1000K015 12P 50V J NPO TS C939 OCH100K648 C840 OCH1036F678 OCH1036F678 C940 OCH1036F678 C940 OCH1054K638 OCH1020K518 C940 OCH1054K638 OCH1020K518 C940 OCH1054K638 OCH1020K518 C940 OCH1054K638 OCH1020K518 OOCH 0540 C940 OCH1054K638 OCH1020K518								C926	3	0CH4390K416	
C835 OCH1010K518 100P 50V KB TA26 C939 OCH1030F678 OCH1010K518 100P 50V KD TA26 C939 OCH1030F678 OCH1010K518 100P 50V KD TA26 C939 OCH1030F678 OCH1030			*		100M SMS 16V M FM5 TP(5)		1	C927	'	0CE2244K638	
C836 C837 C837 C837 C838								C928	3	0CH1223K516	
C839 OCC100X415 12P 50V J NPD TS C839 OCC100X415 12P 50V J NPD TS C839 OCC100X415 12P 50V J NPD TS C839 OCC100X415 12P 50V J NPD TS C839 OCC100X415 12P 50V J NPD C8-125 R/TP C8-43 OCC1076F638 ONM St 16V M FM5 TP(5) C932 OCC1076F638 OCE1054K638 1.00M SM St 16V M FM5 TP(5) C934 OCE1054K638 1.00M SM St 16V M FM5 TP(5) C935 OCH4101K416 (10P 50V J NPD 2.0°1.25 R/TP 100P 50V K B TA26 C8-40 OCE1054K638 1.00M SRA/SS50V M FM5 TP(5) C936 OCH1030F678 OCE1054K638 1.00M SRA/SS50V M FM5 TP(5) C937 OCE1054K638 (10M SRA/SS50V M FM5 TP(5) C938 OCE1074F638 (OCE1054K638 1.00M SRA/SS50V M FM5 TP(5) C939 OCH1030F678 (10P 50V J NPD 2.0°1.25 R/TP 100P 50V J NPD 2.0°1.2	- 1							C929)	0CE4764F638	
C839 OCN1040K948 0.1M 50V Z F TA26 C840 OCN1030F678 0.01M 16V M Y TA26 C843 OCE1054K638 1.0M SMS 16V M FM5 TP(5) C932 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1010K416 100P 50V J N P0 20*1.25 RJTP C902 OCE1054K638 1.0M SRANSS50V M FM5 TP(5) C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1030F678 C935 OCH1020K518 1000P 50V K B TA26 C942 OCE1054K638 OCH1020K518 1000P 50V K B TA26 C945 OC		-	1					C930)	0CN1030F678	
C840 OCN1030F678 C845 C845 C846 C846 C846 C846 C846 C846 C846 C846		İ			12P 50V J NPO TS		ĺ		- 1		100P 50V J NP0 2.0*1.25 R/TP
C843								1 .	1		
C845			1			i			- 1		
C846	- [1 OM SRAKSSOV M EME TO(S)		1	(
C847		- 1			1 0M SRA/SS50V M FM5 TP(5)			f			100P 50V J NP0 2.0*1,25 R/TP
C848					1.0M SRA/SS50V M FM5 TP(5)		İ				
C849					1.0M SRA/SS50V M FM5 TP(5)			j i	- 1		
C850 OCN1030F678 O.01M 16V M Y TA26 C851 OCN1020K518 1000P 50V K B TA26 C854 OCN1020K518 1000P 50V K B TA26 C855 OCN1020K518 1000P 50V K B TA26 C942 OCH103K516 C942 OCH103K516 C942 OCH103K516 O.01U 50V K B ZOX1.25 R/TP OCH1020K518 1000P 50V K B TA26 C945 OCH4560K416 S5P 50V J NPO 2.0X1.25 R/TP OCH1020K518 1000P 50V K B TA26 C945 OCH4560K416 S5P 50V J NPO 2.0X1.25 R/TP OCH1020K518 1000P 50V K B TA26 C950 OCH1022K516 OCH1020K518 1000P 50V K B TA26 C950 OCH1022K516 OCH1020K518 1000P 50V K B TA26 C950 OCH1020K518 1000P 50V K B TA26 C950 OCH1020K518 1000P 50V K B TA26 C950 OCH1020K518 OCH1020K518 1000P 50V K B TA26 C950 OCH1020K518 OCH1020K518 1000P 50V K B TA26 C950 OCH1020K518 OCH1020K518 1000P 50V K B TA26 CP01 G24-088B ECQU2A104MVA AC250J0.1UF MATSU CP04 G24-086B AC CON 472/400V_E,AA(S/S) C875 OCE1064F638 10M SRA 16V M FM5 TP(5) CP06 G24-084H ES-2230-100-400-M SMPS RI-C CP06 OCE1078H638 CP07 OCE1064F638 10M SRA 16V M FM5 TP(5) CP06 OCE1078H638 CP07 OCE1064F638 10M SRA 16V M FM5 TP(5) CP08 G24-087J CP09 OCE1078H638 CP07 OCE1064F638 10M SRA 16V M FM5 TP(5) CP09 OCE1078H638 CP07 OCE1064F638 OCE2264F638 22M SRA 16V M FM5 TP(5) CP09 OCE1078H638 CP07 OCE1064F638 OCE2264F638 22M SRA 16V M FM5 TP(5) CP09 OCE1078H638 CP07 O	ł	-	C849	0CE1054K638				1	1		
C851			C850	0CN1030F678				1	ŀ		
C852 OCN1020K518 1000P 50V K B TA26 C853 OCN1020K518 1000P 50V K B TA26 C854 OCN1020K518 1000P 50V K B TA26 C856 OCN1020K518 1000P 50V K B TA26 C859 OCN1020K518 1000P 50V K B TA26 C859 OCN1020K518 1000P 50V K B TA26 C860 OCN1020K518 1000P 50V K B TA26 C871 OCN1020K518 1000P 50V K B TA26 C871 OCN1020K518 1000P 50V K B TA26 C871 OCN1020K518 1000P 50V K B TA26 C874 OCE1064F638 10M SRA 16V M FM5 TP(5) C875 OCE1064F638 10M SRA 16V M FM5 TP(5) C876 OCE1064F638 10M SRA 16V M FM5 TP(5) C877 OCE1064F638 10M SRA 16V M FM5 TP(5) C878 OCE2224F638 22M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C880			C851	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			ı			0.01M 16V M V TAGE
C853			C852	0CN1020K518	1000P 50V KB TA26		l		- 1		1001 SRA 16V M EMS TD/S
C854 OCN1020K518 1000P 50V K B TA26 C859 OCN1020K518 1000P 50V K B TA26 C859 OCN1020K518 1000P 50V K B TA26 C860 OCN1020K518 1000P 50V K B TA26 C860 OCN1020K518 1000P 50V K B TA26 C871 OCN1020K518 1000P 50V K B TA26 C871 OCN1020K518 1000P 50V K B TA26 C874 OCE1064F638 100M SRA 16V M FM5 TP(5) C876 OCE1064F638 10M SRA 16V M FM5 TP(5) C877 OCE1064F638 10M SRA 16V M FM5 TP(5) C878 OCE2264F638 10M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE1064F638 10M SRA 16V M FM5 TP(5) C881 OCE2264F638 22M SRA 16V M FM5 TP(5) C882 OCE4766F638 22M SRA 16V M FM5 TP(5) C883 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1030F678 OCN1010K518 OCN1010K				0CN1020K518	1000P 50V KB TA26						0.0111 50V KR 2.0Y1.25 D/TD
CR59 OCN1020K518 1000P 50V K B TA26 CR60 OCN1020K518 1000P 50V K B TA26 CR64 OCN1020K518 1000P 50V K B TA26 CR64 OCN1020K518 1000P 50V K B TA26 CR71 OCN1020K518 1000P 50V K B TA26 CR74 OCE1064F638 1000P 50V K B TA26 CR75 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR77 OCE1064F638 1000P 50V K B TA26 CR79 OCE1064F638 1000P 50V K B TA26 CR79 OCE1064F638 1000P 50V K B TA26 CR79 OCE1064F638 1000P 50V K B TA26 CR79 OCE1064F638 1000P 50V K B TA26 CR80 OCE2264F638 22M SRA 16V M FM5 TP(5) CR80 OCE2264F638 22M SRA 16V M FM5 TP(5) CR80 OCE2264F638								C944			0.01U 50V KB 2.0X1.25 R/TP
C860 C860 CN1020K518 1000P 50V K B TA26 C864 C864 CN1020K518 1000P 50V K B TA26 C871 CN1020K518 1000P 50V K B TA26 C874 CC1064F638 1000P 50V K B TA26 C875 CC1064F638 10M SRA 16V M FM5 TP(5) C876 CC2264F638 C877 CC2264F638 C879 CC2264F638 C882 C882 C882 C883 C883 C883 C883 C883 C883 C884 C885 C886 C88		- 1	1					C945			56P 50V J NPO 2.0X1 25 B/TP
C864 C871 C871 C874 C875 C876 C876 C877 C877 C878 C879 C878 C879 C880 C881 C881 C882 C883 C883 C883 C886 C886 C886 C887 C886 C886 C886 C886								C950	- [(OCH1223K516	0.022U 50V K B 2.0X1 2 B/TP
CR71		- 1					OF	R CP01	- 10	524-088A	
C874 OCE1064F638 10M SRA 16V M FM5 TP(5) C875 OCE1064F638 10M SRA 16V M FM5 TP(5) C876 OCE1064F638 10M SRA 16V M FM5 TP(5) C877 OCE1064F638 10M SRA 16V M FM5 TP(5) C878 OCE2064F638 22M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE2064F638		- 1					1	CP01	- 6	624-088B	ECQU2A104MVA AC250/0.1UF MATSU
C875 OCE1064F638 10M SRA 16V M FM5 1P(5) C876 OCE1064F638 10M SRA 16V M FM5 TP(5) C877 OCE1064F638 10M SRA 16V M FM5 TP(5) C878 OCE264F638 10M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE264F638 OCE264F638 22M SRA 16V M FM5 TP(5) C881 OCE264F638		- 1				1		1	(624-066E	AC CON 472/400V,E,AA(S/S)
C876 OCE1064F638 10M SRA 16V M FM5 TP(5) C877 OCE1064F638 10M SRA 16V M FM5 TP(5) C878 OCE2064F638 10M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C879 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE1064F638 10M SRA 16V M FM5 TP(5) C880 OCE2064F638 10M SRA 16V M FM5 TP(5) C909 OCQ1021N409		- 1	. 1		10M SHA 16V M FM5 TP(5)				- 1		AC CON 472/400V,E,AA(S/S)
C877 OCE1064F638 10M SHA 16V M FM5 1P(5) C878 OCE2064F638 10M SHA 16V M FM5 TP(5) C879 OCE1064F638 10M SHA 16V M FM5 TP(5) C880 OCE1064F638 10M SHA 16V M FM5 TP(5) C880 OCE1064F638 10M SHA 16V M FM5 TP(5) C881 OCE2064F638 OCE2064F638 10M SHA 16V M FM5 TP(5) C881 OCE2064F638 0CE2064F638 0CE2064F638 0CE2064F638 0CE2064F638 0CE2064F638 0CE2064F638 OCE2064F638 0CE2064F638 0CE2064F638 0CE2064F638 OCE20					TOM SHA TOV M FM5 TP(5)			1			ES-2230-100-400-M SMPS RI-C
C878		- 1			TOW SPA 16V M FM5 IP(5)			i	- 1	. 1	100U KME 25V M FM5 TP5
C879		- 1	4		22M SRA 16V M EME TO(5)			1	- 1		100U KME 25V M FM5 TP5
C880 OCE1064F638 10M SRA 16V M FM5 TP(5)			_ [10M SRA 16V M EME TO(5)	- 1					HIGH-VOL 102PF/1KV CERAMIC
C881					10M SRA 16V M FMS TD/S						0.001U 100V J POLY TP
C882 OCE4766F638 47M SMS 16V M FM5 TP5 C883 OCN1030F678 0.01M 16V M Y TA26 C884 OCN1010K518 100P 50V K B TA26 C885 OCN1010K518 100P 50V K B TA26 C886 OCN1010K518 100P 50V K B TA26 C886 OCN1010K518 100P 50V K B TA26 C886 OCN1010K518 100P 50V K B TA26 C986 OCN1010K518 100P 50V K B TA26 C987 OCN1010K518 100P 50V K B TA26 C988 OCN1010K518 100P 50V K B TA26		- 1			22M SRA 16V M FM5 TP/5\			1			
C883				0CE4766F638	47M SMS 16V M FM5 TP5		OF		- 1		HEH-1320-1000-25-M SMPS RI-C
C884						1		1			100040V KME (SMPS)
C885				1			٦٠٦		- 1	1	
C886 0CN1010K518 100D 50V KB T400				F				1		I I	1000 UE SHO 400 H SMPS RI-C
1 1 0 1 10 00 L 100 / H030 1000UP SXE 25V M FM5 TP5			C886 (- 1		1000HE SVE GEV M FM5 TP5
							L_		Ľ	-2100/11000	10000F SAE 23V M FM5 1P5

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		CP17	624-084E	HER-1320-1000-25-M SMPS RI-C
	OR	CP17	624-085E	CE 1000UF/25V KME (SMPS)
		CP20	0CE1076K638	100M SMS 50V M FM5 TP(5)
		CP21	0CE1086D638	1000UF SMS 10V M FM5 TP5
		CP22	0CE4766K638	47M SMS 50V M FM5 TP
		CP23	0CC2210K405	220P 50V J SL TP
		CP27	0CQ2731N409	0.027U 100V J POLY TP
		CP32	0CE4766K638	47M SMS 50V M FM5 TP
		CP36	624-086B	AC-CON 103/400V,Z,NU(N/K)
		CP38	624-066A	AC CON 220PF/400V,B,AA(S/S)
		CP39	624-066A	AC CON 220PF/400V,B,AA(S/S)
			DI	ODE
		BDP01	0DD160000DA	S1WBA60(1A 600V) SHIDENKEN
	1	D001	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D002	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D202	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D203	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D204	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D205 D206	0DD131009AA 0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM 1SS131 DETECT,SW(26MM)TP ROHM
		D206	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D207	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D209	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
ŀ		D203	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D211	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D213	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D219	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D220	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D228	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D230	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D233	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D234	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D235	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D301	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D302	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
ŀ		D307	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
l		D308	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
l		D309	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D3A0	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D3A1	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D3A2	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D3A3	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D401	0DD131009AA	1SS131 DETECT, SW(26MM)TP ROHM
1		D402	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D403	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D405 D501	0DD131009AA 0DD400309AB	1SS131 DETECT,SW(26MM)TP ROHM IN4003A(1SR35-200A)5M/M TP ROH
	1	D501	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
l		D502	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
1		D503	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D505	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D506	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D507	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D508	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
1		D703	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
1		D801	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		D902	0DD193009AA	DIODE CHIP KDS193-T1(F3) KEC
		DP03	0DD010009AD	EG01ZW(R-FORM 5MM) TP SANKEN
		DP04	0DD010009AC	EU01W(R-FORM) TP SANKEN
1		DP05	0DD010009AC	EU01W(R-FORM) TP SANKEN
L		DP06	0DD400000AH	RU4YX SANKEN

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		DP07	0DD207000AA	2A07 2A RECTIFIERS(T/S)DELTA
		DP08	0DD140000BA	FMBG14L SANKEN
		DP09	0DD120000BC	FMPG12S SANKEN
		DP10	0DD010009AC	EU01W(R-FORM) TP SANKEN
		DP11	0DD010009AC	EU01W(R-FORM) TP SANKEN
		DP12	0DD010009AC	EU01W(R-FORM) TP SANKEN
			DISPLA	AY TUBE
		DG601	514-031A	13BT-133GK DD1 FUTABA
		LM601	514-505C	LEVEL METER KI-212G2(15MM)ROHM
			DELA	Y LINE
		DL3A0	617-011A	MS-31PC (KSS)
			F	USE
		FP01	585-011C	T 1.6A 250V S506
			FIL	TER
		FL301	616-064D	L/C CL00047A 1.5M LPF S/S
	1	FL302	616-053A	HPF 1.4MHZ (DAE SHIN)
	ļ	FL3A0	616-234C	A285TCHS-K5315 DD1P K-TOKO
		FL3A1	616-234A	A285TCHS-K5305 CAN-COIL DD1P
		FL3A2	616-234B	A285TCHS-K5306 DD1P K-TOKO
		FL3A4	616-126G	L/C BPF CB0067 4.43BPF S/S
		FL401	616-405B	F-K5D9568A 1.8M SAMMI C900P
	1	FL402	616-405A	F-K5D9567A 1.4M SAMMI C900P
		FL403	616-069C	LPF 12KHZ(JH-1058) SAMMI
		FL4A0	616-167A	1.7MBPF TH328BTLS-K5318 K-TOKO
		FL4A1	616-154A	1.5BPF TH328BTLS-K5317K-TOKO D
		FL701	616-069C	LPF 12KHZ(JH-1058) SAMMI
	1	FL702	616-069C	LPF 12KHZ(JH-1058) SAMMI
ŀ		FLP01	616-145A	LINE FILTER SQE TYPE 33MH(BUJ) SAW OFWG3203 SIEMENS
		Z701 Z703	616-098A 616-036E	TRAP TPS5.74MB MURATA
		Z703 Z704	616-036B	TRAP TPS5.5MB MURA
		Z704 Z705	616-714A	MKT40MA100P MURATA
	<u> </u>	2703	010-7147	IC
-	T	IC001	OIHI118191A	HA118191NT PRE-AMP DIP
		IC201	0IMI381850Q	M38185ME-134FP(SY+TI) R-DV10S
		IC202	0INA241600A	NM24C16N(EEPROM.16K) OC3600
		1C202	0IMT523000B	PST-523G/T(3.3V) LOW
		1C204	01HI497560A	HD49756NT(SERVO)
		IC205	0IRH704800A	BA7048N(ENVLOPE-DETECT)
		IC206	0IGS744500A	GL7445 (MOTOR DRIV-1CH) GSS
1	1	IC207	0ISM564900A	SDA5649 (VPS+PDC)
-		IC301	0iHi118201A	HA118201CF Y/C PAL/MULTI
		IC303	0IKK746063A	MSM7460-63RS CCD(PAL) DIP
1		IC3A0	OIHI118172A	HA118172F(Y/C 8MM)HARD TRAY
1	Ì	IC3A1	0!SO120300A	CXA1203M(8MM PAL JOG)SOP-24P-L
		IC3A2	01KK740300A	MSM7403MS(2H CCD)FLAT KINSEKI
	İ	IC401	0IRH779000A	BA7790LS(AUDIO NORMAL)
1		IC402	0ITO881300A	TA8813AN(HI-FI MAIN PAL)
l		IC403	0ISG642000A	TEA6420 S/W IC DIP
		IC404	0ISA722200A	LA7222 (1280 AUDIO)
1		IC4A0	01HI118276A	HA118276F
		IC501	0ISO807240S	CXP80724-345Q(SY+SE)R-DV10S
1		IC502	0IMT523000C	PST-523D/T
L		IC503	0ISA183600A	LB1836M-TEL LOADING MOT 1K/TP

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		1C504	0ISO112700A	CXA1127M-T6 CAP-M DRIV 30SOP
		IC505	01GS740600A	GL7406 (MOTOR DRIV) TAPING
1		IC506	0ISO151200A	CXA1512M
		IC507	0IGS358000E	GL358D (T&R) OP AMP 2.5K/TP
1	1	IC508	01EX108230A	XR-10823(ATF)QFP32
1	1	IC601	0INE163110A	UPD16311GC-AB6 FIP DRIV 52PQFP
	1	IC602	0IRH152180B	BA15218(HEAD-PHONE AMP)DIP
		IC701	01PH980000A	TDA9800 VIF PLL DEM & FM DET
1	1	IC704	011T341000A	MSP3410(NICAM+G2) OC3600
	1	IC801	OIMI350100M	M35010-110SP(OSD)BF900P/3600H
		IC802	0ISG640000A	STV6400 S/W IC DIP
		IC803	0JR222900A	NJM2229S SYNC SEPA (SIP PACK)
1		IC805	0JR224900A	NJM2249L S/W (8 PIN SIP)
1	ĺ	IC806	01GS324000A	GL324 (QUAD PUPLE OP AMP)
1	1	IC901	0lHl118019A	HA118019NT(PRE-AMP 4HD)
	1	IC902	0IRH774000A	BA7740S (PRE-AMP HI-FI)
	1	ICP01	0ISK670700B	STR/S6707(LF.953) 9P (R5,R6)
		ICP03	01KE431000A	KIA431
H	L.,	107 00		
L	_	T	T	ACK
_	<u></u>	JK601	572-055A	MIC HSJ1406-01-010
		,	С	OIL
		BD701	636-010F	BEAD,BL01R1-A62T5,MURATA TAPIN
l		BD801	0LA0101K018	1.0M K 2.3X3.4 L5 TP
		BD802	636-010F	BEAD,BL01R1-A62T5,MURATA TAPIN
		L001	0LR1000K035	100M K 6X6 L5 TP
		L002	0LR1000K035	100M K 6X6 L5 TP
l		L003	0LR8200K035	820M K 6X6 L5 TP
l	Ì.	L004	0LR3300K035	330M K 6X6 L5 TP
l		L005	0LA1800K018	180M K 2.3X3.4 L5 TP
		L006	0LA0222K018	22M K 2.3X3.4 L5 TP
		L007	0LA0392K018	39M K 2.3X3.4 L5 TP
		L008	0LA0332K018	33M K 2.3X3.4 L5 TP
		L009	0LA0222K018	22M K 2.3X3.4 L5 TP
		L010	0LR1000K035	100M K 6X6 L5 TP
		L011	0LA0102K018	10M K 2.3X3.4 L5 TP
		L012	0LA0332K018	33M K 2.3X3.4 L5 TP
		L013	0LA0222K018	22M K 2.3X3.4 L5 TP
		L014	0LA0222K018	22M K 2.3X3 415 TP
		L015	0LR1000K035	100M K 6X6 L5 TP
	ĺ	L201	0LR1000K035	100M K 6X6 L5 TP
		L203	0LR1200K035	120M K 6X6 L5 TP
		L204	0LR1000K035	100M K 6X6 L5 TP
	ļ	L205	0LR1000K035	100M K 6X6 L5 TP
		L206	0LR1000K035	100M K 6X6 L5 TP
		L207	0LR1000K035	100M K 6X6 L5 TP
	- 1	L208	0LA0472K018	47M K 2.3X3.4 L5 TP
		L210	0LR1000K035	100M K 6X6 L5 TP
		L211	0LR1000K035	100M K 6X6 L5 TP
		L212	0LR1000K035	100M K 6X6 L5 TP
		L302	0LA1500K018	150M K 2.3X3.4 L5 TP
		L307	0LR1000K035	100M K 6X6 L5 TP
		L308	0LR1000K035	100M K 6X6 L5 TP
		L311	0LR1000K035	100M K 6X6 L5 TP
		L312	0LA0682K018	68M K 2.3X3.4L5 TP
		L313	0LR1000K035	100M K 6X6 L5 TP
		L314	0LA0822K018	•
	ĺ	L315	0LR1000K035	82M K 2.3X3.4L5 TP
			0LR3900K035	100M K 6X6 L5 TP
		L317	0LA0152K018	390M K 6X6 L5 TP
		LU1/	OLAUI3ZNUI8	15M K 2.3X3.4 L5 TP

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		L318	0LA0102K018	10M K 2.3X3.4 L5 TP
		L319	0LR1000K035	100M K 6X6 L5 TP
		L321	0LA2200K018	220M K 2.3X3.4 L5 TP
		L322	0LA0392K018	39M K 2.3X3.4 L5 TP
		L325	0LR1000K035	100M K 6X6 L5 TP
		L326 L328	0LA0272K018 0LA0472K018	27M K 2.3X3.4 L5 TP
		L329	0LA0472K018	47M K 2.3X3.4 L5 TP 10M K 2.3X3.4 L5 TP
		L331	0LA0682K018	68M K 2.3X3.4 L5 TP
		L333	0LA0122K018	12M K 2.3X3.4 L5 TP
		L334	0LR1000K035	100M K 6X6 L5 TP
		L3A0	0LR1000K035	100M K 6X6 L5 TP
		L3A1	0LR0332K035	33M K 6X6 L5 TP
		L3A2	0LA1800K018	180M K 2.3X3.4 L5 TP
		L3A3 L3A4	0LA0102K018	10M K 2.3X3.4 L5 TP
		L3A4	0LA0222K018 0LR1000K035	22M K 2.3X3.4 L5 TP
		L3A6	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
		L3A7	0LR1000K035	100M K6X6 L5 TP
		L3A8	0LR1000K035	100M K 6X6 L5 TP
	ĺ	L3A9	0LA0152K018	15M K 2.3X3.4 L5 TP
I		L3B0	0LR1000K035	100M K 6X6 L5 TP
	ŀ	L3B1	0LR1000K035	100M K 6X6 L5 TP
		L3B2	0LA0682K018	68M K 2.3X3.4 L5 TP
		L3B3 L3B4	0LR3300K035	330M K 6X6 L5 TP
ĺ		L3B4 L401	0LR8200K035 0LR1000K035	820M K 6X6 L5 TP 100M K 6X6 L5 TP
		L402	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
	- 1	L403	0LR1000K035	100M K 6X6 L5 TP
		L404	0LR1000K035	100M K 6X6 L5 TP
		L405	0LR1000K035	100M K 6X6 L5 TP
Ì		L406	0LR1502J045	0.015H J 6X7 L5 TP
		L407	0LR1000K035	100M K 6X6 L5 TP
- 1	Ì	L408	0LR1000K035	100M K 6X6 L5 TP
ŀ		L409	0LR1000K035	100M K 6X6 L5 TP
1	ı	L4A0 L501	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
		L502	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
		L503	0LR1000K035	100M K 6X6 L5 TP
		L504	0LR1000K035	100M K 6X6 L5 TP
		L505	0LR1000K035	100M K 6X6 L5 TP
		L506	0LR1000K035	100M K 6X6 L5 TP
		L507	0LR1000K035	100M K 6X6 L5 TP
		L508	0LR1000K035	100M K 6X6 L5 TP
Ī		L509 L510	0LA1800K018 0LR8200J025	180M K 2.3X3.4 L5 TP
		L511	0LR1000K035	820UH 5% 4X5 TR5 100M K 6X6 L5 TP
		L512	0LR1000K035	100M K 6X6 L5 TP
		L601	0LA1000K018	100M K 2.3X3.4 L5 TP
		L704	0LA0121K018	1.2M K 2.3X3.4 L5 TP
-		L705	0LA0102K018	10M K 2.3X3.4 L5 TP
	1	L706	0LR1000K035	100M K 6X6 L5 TP
		L707	0LA0332K018	33M K 2.3X3.4 L5 TP
		L708	0LR1000K035	100M K 6X6 L5 TP
		L709 L714	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP
	- 1	L715	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
		L716	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
	- 1	L717	0LR1000K035	100M K 6X6 L5 TP
		L718	0LR1000K035	100M K 6X6 L5 TP
		L719	0LR1000K035	100M K 6X6 L5 TP
ĺ		L720	0LR1000K035	100M K 6X6 L5 TP

		T		1 —	T T			RUN DATE : 95.09
S	AL LOCA.N	-	SPECIFICATION	s	AL L	OCA.NO	PART NO(GS)	SPECIFICATION
	L721	0LR1000K035	100M K 6X6 L5 TP			Q003	0TR103009AE	KRC103M-TP (KRC1203) KEC
	L801	0LR1000K035	100M K 6X6 L5 TP			Q005	0TR103009AE	KRC103M-TP (KRC1203) KEC
	L803 L804	0LR1000K035	100M K 6X6 L5 TP			Q006	0TR126709AC	KTA1267-GR MINI TP KEC
	L805	0LR1000K035 0LA0332K018	100M K 6X6 L5 TP	1 1		Q007	0TR319909AF	KTC3199-BL MINI TP KEC
	L806	0LA0122K018	33M K 2.3X3.4 L5 TP 12M K 2.3X3.4 L5 TP			Q008	0TR319909AF	KTC3199-BL MINI TP KEC
	L807	0LR1000K035	100M K 6X6 L5 TP	li	1 1	Q009	0TR319909AF	KTC3199-BL MINI TP KEC
	L808	0LA1000K018	100M K 2.3X3.4 L5 TP		I I	Q010	0TR319709AC	KTC3197 (KTC388A) TP KEC
	L809	0LA1000K018	100M K 2.3X3.4L5 TP		1 1	Q011	0TR319909AF	KTC3199-BL MINI TP KEC
	L810	0LA1000K018	100M K 2.3X3.4L5 TP		1 1	Q012	0TR126709AC	KTA1267-GR MINI TP KEC
	L811	0LA1000K018	100M K 2.3X3.4 L5 TP			Q013 Q014	0TR319909AF	KTC3199-BL MINI TP KEC
1	L812	0LA1000K018	100M K 2.3X3.4L5 TP			Q014 Q015	0TR126709AC 0TR103009AE	KTA1267-GR MINI TP KEC
	L813	0LA1000K018	100M K 2.3X3.4 L5 TP			Q201	0TR103009AE	KRC103M-TP (KRC1203) KEC
1	L814	0LA1000K018	100M K 2.3X3.4L5 TP			Q202	0TR103009AE	KRC103M-TP (KRC1203) KEC
	L815	0LA1000K018	100M K 2.3X3.4L5 TP			Q203	0TR103009AE	KRC103M-TP (KRC1203) KEC
	L816	0LR1000K035	100M K 6X6 L5 TP] [0TR319809AC	KRC103M-TP (KRC1203) KEC
	L817	0LR1000K035	100M K 6X6 L5 TP	1 1		Q205	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
	L818	0LA0222K018	22M K 2.3X3.4 L5 TP	- 1 1	1		0TR103009AE	KTC3198-TP-BL (KTC1815)KEC
	L819	0LA0222K018	22M K 2.3X3.4 L5 TP			Q207	0TR127309AA	KRC103M-TP (KRC1203) KEC KTA1273-TP-Y (KTA966A)KEC
	L820	0LA0222K018	22M K 2.3X3.4 L5 TP			2208	0TR103009AE	KRC103M-TP (KRC1203) KEC
1	L8C1	0LA0101K018	1.0M K 2.3X3.4 L5 TP	1 1		2209	0TR103009AF	KRA103M-TP (KRA2203) KEC
il	L901	0LR1000K035	100M K 6X6 L5 TP	1 1			0TR103009AF	KRA103M-TP (KRA2203) KEC
	L902	0LA0681K018	6.8M K 2.3X3.4 L5 TP	1 1		Q211	0TR103009AF	KRA103M-TP (KRA2203) KEC
1	L903	0LA0181K018	1.8M K 2.3X3.4 L5 TP			2212	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
	L904 L905	0LR1000K035	100M K 6X6 L5 TP	1 1			0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
	L905	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP	11	- 1		0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
	L907	0LR3300K035	100M K 6X6 L5 TP 330M K 6X6 L5 TP				0TR103009AE	KRC103M-TP (KRC1203) KEC
	LP01	636-004C	BEAD CORE BFS3550R2FD8,R T/P]			0TR103009AE	KRC103M-TP (KRC1203) KEC
	LP02	636-004C	BEAD CORE BFS3550R2FD8,R T/P	1 1			0TR103009AE	KRC103M-TP (KRC1203) KEC
	LP03	633-088A	SC-20M CHOKE,COIL				0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
	LP04	633-088A	SC-20M CHOKE,COIL	1 1			0TR103009AE	KRC103M-TP (KRC1203) KEC
	LP06	633-088A	SC-20M CHOKE,COIL				0TR127309AA 0TR103009AE	KTA1273-TP-Y (KTA966A)KEC
	T401	633-032C	BIAS-OSC(MISUMI) 70KHZ			i. i I	0TR127309AA	KRC103M-TP (KRC1203) KEC
	T402	633-032C	BIAS-OSC(MISUMI) 70KHZ		1	1	0TR319809AC	KTA1273-TP-Y (KTA966A)KEC
	T701	633-085A	V-COIL 2920N-K5592Z 77.8 TOKO	1			0TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC
	T702	633-021C	PIF(D/S)				0TR126709AC	KTA1267-GR MINI TP KEC
			FD		Q	1	0TR103009AE	KRC103M-TP (KRC1203) KEC
		L	ED	1 1	Q		0TR126709AC	KTA1267-GR MINI TP KEC
	LD601	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC		Q	307 (0TR103009AE	KRC103M-TP (KRC1203) KEC
	LD602	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC				0TR126709AC	KTA1267-GR MINI TP KEC
1	LD6A1	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC	1 1			0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
	LD6A2	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC		- 1		0TR103009AE	KRC103M-TP (KRC1203) KEC
							0TR103009AE	KRC103M-TP (KRC1203) KEC
		MODU	ILATOR				OTR319809AC	KTC3198-TP-BL (KTC1815)KEC
	MD701	592-808A	MCP9 LICOSOO DAL DIO MO ATT				OTR126709AC OTR103009AE	KTA1267-GR MINI TP KEC
	IND/01	332-000A	MCB8-UG3630 PAL B/G WO ATT	1 1	l l		OTR319809AC	KRC103M-TP (KRC1203) KEC
	CII	RCUIT BOA	RD ASSEMBLY		- 1	[TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC
	T T				- 1		- 1	KRA103M-TP (KRA2203) KEC
	PBIO0	6871R-0252A	I/O BOARD (2NDDD1S)		1		I	KRC103M-TP (KRC1203) KEC
	PBJT0		JUNCTION 2 (G/S)	1 1	Q			KTA1267-GR MINI TP KEC
	PBM00		VHS MAIN (DV13P 3GL1)		- 1		l l	KTC3198-TP-BL (KTC1815)KEC
	PBT00	6871R-0248A	TIMER 2NDDD1S			328 0	1	KTC3198-TP-BL (KTC1815)KEC
		TRANCI	FORMER			329 0	b	KRC103M-TP (KRC1203) KEC
		IOMNO					TR319909AF	KTC3199-BL MINI TP KEC
	PTP01	642-019A	S/W TRANS EER3530(SUPER PAL)				TR103009AE	KRC103M-TP (KRC1203) KEC
		<u></u>					TR103009AE	KRC103M-TP (KRC1203) KEC
		TRANS	SISTOR		1		TR127309AA	KTA1273-TP-Y (KTA966A)KEC
	Toon						TR103009AE	KRC103M-TP (KRC1203) KEC
T	. (11819	0TR319909AF	KTC3199-BL MINI TP KEC		Q3	-A/ 0ັ	TR103009AE	KRC103M-TP (KRC1203) KEC
	Q001 Q002		KTC3199-BL MINI TP KEC	1 1	100	A8 01	TR103009AE	KRC103M-TP (KRC1203) KEC

s	ΔI	LOCA.NO	PART NO(GS)	SPECIFICATION
Ľ	AL			
		Q3A9	0TR103009AF	KRA103M-TP (KRA2203) KEC
İ		Q3B0	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q3B1	0TR103009AE	KRC103M-TP (KRC1203) KEC
	1	Q3B2	0TR319909AF	KTC3199-BL MINI TP KEC KTA1267-GR MINI TP KEC
١		Q3B3	0TR126709AC	KTC3199-BL MINI TP KEC
		Q3B4	0TR319909AF	KTC3199-BL MINI TP KEC
l		Q3E1	0TR319909AF 0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q401 Q402	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
ì	1	Q402 Q403	01R319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q403 Q404	0TR126709AC	KTA1267-GR MINI TP KEC
		Q405	0TR126709AC	KTA1267-GR MINI TP KEC
		Q406	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q407	0TR103009AE	KRC103M-TP (KRC1203) KEC
	Ì	Q408	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1		Q409	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q410	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q411	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1	İ	Q412	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q413	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q414	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q415	0TR126709AC	KTA1267-GR MINI TP KEC
1		Q416	0TR126709AC	KTA1267-GR MINI TP KEC
1	1	Q417	0TR126709AC	KTA1267-GR MINI TP KEC
		Q418	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
Ì		Q419	0TR126709AC	KTA1267-GR MINI TP KEC
		Q420	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q421	0TR103009AE	KRC103M-TP (KRC1203) KEC
	1	Q4A0	0TR319909AF	KTC3199-BL MINI TP KEC KTC3199-BL MINI TP KEC
1		Q4A1	0TR319909AF 0TR319909AF	KTC3199-BL MINI TP KEC
		Q4A2 Q4A3	0TR319909AF	KTC3199-BL MINI TP KEC
		Q4A4	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q4A5	0TR103009AF	KRA103M-TP (KRA2203) KEC
1		Q4A6	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q502	0TR223609AB	KTC2236A-Y=KTC3205Y TP KEC
		Q503	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q504	0TR205800AA	KTD2058-0 KEC
		Q505	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
1		Q506	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
	1	Q507	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q508	0TR205800AA	KTD2058-0 KEC
1		Q509	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q510	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q601	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q6B1	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q701	0TR319709AC	KTC3197 (KTC388A) TP KEC KTC3198-TP-BL (KTC1815)KEC
		Q703 Q709	0TR319809AC 0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q710	0TR126709AC	KTA1267-GR MINI TP KEC
İ		Q710 Q712	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q801	0TR126709AC	KTA1267-GR MINI TP KEC
		Q802	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q803	0TR103009AE	KRC103M-TP (KRC1203) KEC
	1	Q804	0TR126709AC	KTA1267-GR MINI TP KEC
		Q805	0TR103009AE	KRC103M-TP (KRC1203) KEC
	ļ	Q806	0TR319909AF	KTC3199-BL MINI TP KEC
		Q807	0TR319909AF	KTC3199-BL MINI TP KEC
		Q808	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q809	0TR126709AC	KTA1267-GR MINI TP KEC
		Q810	0TR319909AF	KTC3199-BL MINI TP KEC
		Q811	0TR319909AF	KTC3199-BL MINI TP KEC
_			<u> </u>	1

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		Q812	0TR319909AF	KTC3199-BL MINI TP KEC
		Q814	0TR319909AF	KTC3199-BL MINI TP KEC
	Ì	Q902	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
		Q903	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
		Q904	0TR150409AC	KTA1504-GR-T1(ASG) CHIP KEC
l		Q905	0TR150409AC	KTA1504-GR-T1(ASG) CHIP KEC
	1	Q906	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
	1	Q907	0TR387609AA	CHIP KTC3876-0-T1(WO) KEC
İ		Q908	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
	-	,	SE	NSOR
		ICP04	657-060C	CQY80NG PHOTO-COUPLER TELEFUN

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	C	J	K	М	N	Z	Р	Α
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			RES	SISTOR
		R001	0RD0752F608	75 1/6W 5 TA26
		R002	0RD0752F608	75 1/6W 5 TA26
		R003	0RD0562F608	56 1/6W 5 TA26
		R004	0RD3902F608	39K 1/6W 5 TA26
		R006	0RD8200F608	820 1/6W 5 TA26
		R008	0RD5600F608	560 1/6W 5 TA26
		R009	0RD6800F608	680 1/6W 5 TA26
	l I	R011	0RD1002F608	10K 1/6W 5 TA26
		R012	0RD2702F608	27K 1/6W 5 TA26
		R013	0RD8200F608	820 1/6W 5 TA26
		R014	0RD2202F608	22K 1/6W 5 TA26
- 1		R015	0RD2202F608	22K 1/6W 5 TA26
		R016	0RD4700F608	470 1/6W 5 TA26
		R017	0RD1501F608	1.5K 1/6W 5 TA26
		R018	0RD4700F608	470 1/6W 5 TA26
		R019	0RD6800F608	680 1/6W 5 TA26
		R020	0RD2200F608	220 1/6W 5 TA26
		R021	0RD8200F608	820 1/6W 5 TA26
		R023	0RD1501F608	1.5K 1/6W 5 TA26
		R024	0RD3301F608	3.3K 1/6W 5 TA26
		R025	0RD1801F608	1.8K 1/6W 5 TA26
i		R026	0RD1001F608	1.0K 1/6W 5 TA26
		R027	0RD8200F608	820 1/6W 5 TA26
ı	- 1	R028	0RD2202F608	22K 1/6W 5 TA26
		R029	0RD2202F608	22K 1/6W 5 TA26
	1	R030	0RD2200F608	220 1/6W 5 TA26
1	- 1	R032	0RD1201F608	1.2K 1/6W 5 TA26
		R033	0RD6800F608	680 1/6W 5 TA26
	- 1	R034	0RD2701F608	2.7K 1/6W 5 TA26
		R035	0RD1002F608	10K 1/6W 5 TA26
		R036	0RD1001F608	1.0K 1/6W 5 TA26
		R037	0RD4700F608	470 1/6W 5 TA26
-		R038	0RD1001F608	1.0K 1/6W 5 TA26
		R039	0RD4700F608	470 1/6W 5 TA26
		R041	0RD1001F608	1.0K 1/6W 5 TA26
		R042	0RD5601F608	5.6K 1/6W 5 TA26
		R043	0RD8200F608	820 1/6W 5 TA26
		R201	0RD1001F608	1.0K 1/6W 5 TA26
		R202	0RD4701F608	4.7K 1/6W 5 TA26
		R203	0RD1001F608	1.0K 1/6W 5 TA26
		R204	0RD2702F608	27K 1/6W 5 TA26
	- [R205	0RD1202F608	12K 1/6W 5 TA26
		R206	0RD1202F608	12K 1/6W 5 TA26

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S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R207	0RD1002F608	10K 1/6W 5 TA26
		R208	0RD6802F608	68K 1/6W 5 TA26
		R209	0RD3301F608	3.3K 1/6W 5 TA26
		R210	0RD1002F608	10K 1/6W 5 TA26
		R211	0RD3302F608	33K 1/6W 5 TA26
		R212	0RD1002F608	10K 1/6W 5 TA26
		R213	0RD1501F608	1.5K 1/6W 5 TA26
		R214	0RD1502F608	15K 1/6W 5 TA26
		R215 R216	0RD6801F608	6.8K 1/6W 5 TA26
		R217	0RD3901F608	3.9K 1/6W 5 TA26
		R217	0RD2703F608	270K 1/6W 5 TA26
		R219	0RD6802F608	68K 1/6W 5 TA26
		R219	0RD2702F608	27K 1/6W 5 TA26
		R221	0RD8203F608	820K 1/6W 5 TA26
		R222	0RD5603F608	560K 1/6W 5 TA26
		R223	0RD8201F608 0RD1501F608	8.2K 1/6W 5 TA26
		R224	0RD1503F608	1.5K 1/6W 5 TA26
l		R225	0RD1503F608	150K 1/6W 5 TA26 150K 1/6W 5 TA26
		R226	0RD2203F608	220K 1/6W 5 TA26
ĺ		R227	0RD6802F608	68K 1/6W 5 TA26
		R228	0RD6802F608	68K 1/6W 5 TA26
i		R229	0RD4701F608	4.7K 1/6W 5 TA26
		R230	0RD4701F608	4.7K 1/6W 5 TA26
		R231	0RD5601F608	5.6K 1/6W 5 TA26
		R232	0RD0101F608	1.0 1/6W 5 TA26
	ļ	R233	0RD5601F608	5.6K 1/6W 5 TA26
		R234	0RD3902F608	39K 1/6W 5 TA26
		R235	0RD2701F608	2.7K 1/6W 5 TA26
		R236	0RD6803F608	680K 1/6W 5 TA26
		R237	0RD2702F608	27K 1/6W 5 TA26
- 1		R238	0RD4702F608	47K 1/6W 5 TA26
	l	R239	0RD8201F608	8.2K 1/6W 5 TA26
		R240	0RD1003F608	100K 1/6W 5 TA26
ı	İ	R241	0RD1503F608	150K 1/6W 5 TA26
- 1		R242	0RD8202F608	82K 1/6W 5 TA26
		R243	0RD1503F608	150K 1/6W 5 TA26
		R244	0RD1003F608	100K 1/6W 5 TA26
		R245	0RD0101F608	1.0 1/6W 5 TA26
ŀ	- 1	R246	0RD1001F608	1.0K 1/6W 5 TA26
		R247 R248	0RD8203F608	820K 1/6W 5 TA26
		R249	0RD1202F608 0RD1201F608	12K 1/6W 5 TA26
.		R250	0RD5601F608	1.2K 1/6W 5 TA26
	1	R251	0RD4700F608	5.6K 1/6W 5 TA26 470 1/6W 5 TA26
	L			ווס ווסדר ט וואבט

R253 R254 R255 R256 R264	614-011B 0RD1001F608 0RD2201F608 0RD4701F608	PRW 3.3/2W 10MM FORM/BULK SUNG 1.0K 1/6W 5 TA26					
R254 R255 R256 R264	0RD2201F608				R2E3	0RD6801F608	6.8K 1/6W 5 TA26
R255 R256 R264					R2E5	0RD3902F608	39K 1/6W 5 TA26
R256 R264	0RD4701F608	2.2K 1/6W 5 TA26	Ì		R2E8	0RD4702F608	47K 1/6W 5 TA26
R264		4.7K 1/6W 5 TA26	ł	1	R301	0RD4701F608	4.7K 1/6W 5 TA26
1 1 1 1	ORD1001F608	1.0K 1/6W 5 TA26	-		R302	0RD3302F608	33K 1/6W 5 TA26
	0RD2201F608	2.2K 1/6W 5 TA26	Ì		R303	0RD1001F608	1.0K 1/6W 5 TA26
1 1 1 1	0RD1004F608	1.0M 1/6W 5 TA26			R304	0RD1802F608	18K 1/6W 5 TA26
1 1 1	0RD1003F608	100K 1/6W 5 TA26			R306	0RD3302F608	33K 1/6W 5 TA26
1 1 1 1	0RD4704F608	4.7M 1/6W 5 TA26	-		R307	0RD1802F608	18K 1/6W 5 TA26
R270	0RD1002F608	10K 1/6W 5 TA26			R308	0RD1001F608	1.0K 1/6W 5 TA26
R271	0RD2201F608	2.2K 1/6W 5 TA26			R309 R311	0RD0102F608	10 1/6W 5 TA26
R272	0RD4701F608	4.7K 1/6W 5 TA26		İ	R312	0RD2701F608 0RD6801F608	2.7K 1/6W 5 TA26 6.8K 1/6W 5 TA26
R273	0RD1502F608	15K 1/6W 5 TA26			H312	0RD2200F608	220 1/6W 5 TA26
R274	0RD4701F608	4.7K 1/6W 5 TA26			R315	0RD4701F608	4.7K 1/6W 5 TA26
R275 R276	ORD4701F608 ORD4701F608	4.7K 1/6W 5 TA26 4.7K 1/6W 5 TA26	-		R316	0RD1002F608	10K 1/6W 5 TA26
R277	0RD2702F608	27K 1/6W 5 TA26	İ		R317	0RD1002F608	10K 1/6W 5 TA26
R278	0RD2702F608	27K 1/6W 5 TA26			R318	0RD1001F608	1.0K 1/6W 5 TA26
R279	0RD1002F608	10K 1/6W 5 TA26			R319	0RD1001F608	1.0K 1/6W 5 TA26
R280	0RD1002F608	10K 1/6W 5 TA26		-	R320	0RD4701F608	4.7K 1/6W 5 TA26
R281	0RD3302F608	33K 1/6W 5 TA26			R321	0RD1001F608	1.0K 1/6W 5 TA26
R282	0RD3302F608	33K 1/6W 5 TA26	1		R322	0RD7500F608	750 1/6W 5 TA26
R283	0RD6802F608	68K 1/6W 5 TA26			R323	0RD1001F608	1.0K 1/6W 5 TA26
R284	0RD2201F608	2.2K 1/6W 5 TA26	ļ		R324	0RD4702F608	47K 1/6W 5 TA26
R285	0RD2201F608	2.2K 1/6W 5 TA26			R325	0RD4702F608	47K 1/6W 5 TA26
R286	0RD4701F608	4.7K 1/6W 5 TA26			R326	0RD1001F608	1.0K 1/6W 5 TA26
R287	0RD4701F608	4.7K 1/6W 5 TA26	1		R327	0RD4700F608	470 1/6W 5 TA26
R288	0RD4701F608	4.7K 1/6W 5 TA26			R328	0RD1802F608	18K 1/6W 5 TA26
R289	0RD4700F608	470 1/6W 5 TA26			R329	0RD4701F608	4.7K 1/6W 5 TA26
R290	0RD4701F608	4.7K 1/6W 5 TA26			R331	0RD1201F608	1.2K 1/6W 5 TA26
R291	0RD4701F608	4.7K 1/6W 5 TA26			R332	0RD1001F608	1.0K 1/6W 5 TA26
R292	0RD4701F608	4.7K 1/6W 5 TA26	- 1	1	R333	0RD5600F608	560 1/6W 5 TA26
R293	0RD4701F608	4.7K 1/6W 5 TA26			R334	0RD1001F608	1.0K 1/6W 5 TA26
R294	0RD4701F608	4.7K 1/6W 5 TA26		1	R336	0RD1200F608	120 1/6W 5 TA26
R295	0RD4701F608	4.7K 1/6W 5 TA26		1	R337	0RD2201F608	2.2K 1/6W 5 TA26
R296	0RD4701F608	4.7K 1/6W 5 TA26		1	R340	0RD1501F608	1.5K 1/6W 5 TA26
R297	0RD1001F608	1.0K 1/6W 5 TA26			R342	0RD2702F608	27K 1/6W 5 TA26
R298	0RD4701F608	4.7K 1/6W 5 TA26			R343 R344	0RD1501F608	1.5K 1/6W 5 TA26 2.0K 1/6W 5 TA26
R299	0RD1001F608	1.0K 1/6W 5 TA26			R345	ORD2001F608 ORD8200F608	820 1/6W 5 TA26
R2A1 R2A2	0RD4701F608 0RD6802F608	4.7K 1/6W 5 TA26 68K 1/6W 5 TA26			R346	0RD1801F608	1.8K 1/6W 5 TA26
R2A3	0RD6802F608	68K 1/6W 5 TA26			R347	0RD8202F608	82K 1/6W 5 TA26
R2A7	0RD2201F608	2.2K 1/6W 5 TA26			R350	0RD1201F608	1.2K 1/6W 5 TA26
R2A8	0RD4701F608	4.7K 1/6W 5 TA26			R351	0RD1802F608	18K 1/6W 5 TA26
R2A9	0RD4701F608	4.7K 1/6W 5 TA26			R352	0RD3302F608	33K 1/6W 5 TA26
R2B3	0RD2702F608	27K 1/6W 5 TA26			R353	0RD1002F608	10K 1/6W 5 TA26
R2B5	0RD6802F608	68K 1/6W 5 TA26			R354	0RD1002F608	10K 1/6W 5 TA26
R2B6	0RD6802F608	68K 1/6W 5 TA26			R355	0RD5601F608	5.6K 1/6W 5 TA26
R2B8	0RD6802F608	68K 1/6W 5 TA26			R359	0RD1001F608	1.0K 1/6W 5 TA26
R2B9	0RD6802F608	68K 1/6W 5 TA26			R361	0RD3901F608	3.9K 1/6W 5 TA26
R2C3	0RD4701F608	4.7K 1/6W 5 TA26			R362	0RD3301F608	3.3K 1/6W 5 TA26
R2C4	0RD4701F608	4.7K 1/6W 5 TA26	1		R379	0RD2701F608	2.7K 1/6W 5 TA26
R2D1	0RD1001F608	1.0K 1/6W 5 TA26			R382	0RD7500F608	750 1/6W 5 TA26
R2D2	0RD1001F608	1.0K 1/6W 5 TA26	1		R383	0RD2201F608	2.2K 1/6W 5 TA26
R2D3	0RD2702F608	27K 1/6W 5 TA26		1	R384	0RD2201F608	2.2K 1/6W 5 TA26
R2D4	0RD1001F608	1.0K 1/6W 5 TA26			R385	0RD3900F608	390 1/6W 5 TA26
R2D5	0RD1001F608	1.0K 1/6W 5 TA26			R386	0RD3900F608	390 1/6W 5 TA26
R2D7	0RD1003F608	100K 1/6W 5 TA26			R387	0RD1001F608	1.0K 1/6W 5 TA26
R2D8	0RD1004F608	1.0M 1/6W 5 TA26			R388	0RD5601F608	5.6K 1/6W 5 TA26
R2D9	0RD6801F608	6.8K 1/6W 5 TA26		1	R389	0RD2201F608	2.2K 1/6W 5 TA26
R2E1	0RD1204F608	1.2M 1/6W 5 TA26			R390	0RD1001F608	1.0K 1/6W 5 TA26
R2E2	0RD1204F608	1.2M 1/6W 5 TA26			R391	0RD5600F608	560 1/6W 5 TA26

Γ_		I			_		_	Т	T	RUN DATE : 95.09.2
s	AL		PART NO(GS)		╛	s	AL	LOCA.NO	PART NO(GS	SPECIFICATION
		R392	0RD3900F608	390 1/6W 5 TA26	- 1			R401	0RD1002F608	10K 1/6W 5 TA26
1		R393 R395	0RD2200F608	220 1/6W 5 TA26	1			R402	0RD1002F608	10K 1/6W 5 TA26
		R396	0RD1201F608 0RD1801F608	1.2K 1/6W 5 TA26	-	1		R403	0RD2702F608	27K 1/6W 5 TA26
		R397	0RD4700F608	1.8K 1/6W 5 TA26	1			R404	0RD1001F608	1.0K 1/6W 5 TA26
		R398	0RD8200F608	470 1/6W 5 TA26				R405	0RD8202F608	82K 1/6W 5 TA26
		R3A1	0RD1802F608	820 1/6W 5 TA26		1		R406	0RD2201F608	2.2K 1/6W 5 TA26
		R3A2	0RD1802F608	18K 1/6W 5 TA26 18K 1/6W 5 TA26				R407	0RD2202F608	22K 1/6W 5 TA26
		R3A3	0RD4701F608	4.7K 1/6W 5 TA26	ı			R408	0RD2203F608	220K 1/6W 5 TA26
		R3A4	0RD1501F608	1.5K 1/6W 5 TA26	-			R409	0RD1201F608	1.2K 1/6W 5 TA26
		R3A5	0RD1001F608	1.0K 1/6W 5 TA26	-			R40A	0RD1201F608	1.2K 1/6W 5 TA26
		R3A6	0RD1001F608	1.0K 1/6W 5 TA26				R40B R410	0RD1001F608	1.0K 1/6W 5 TA26
		R3A7	0RD1001F608	1.0K 1/6W 5 TA26		l		R411	0RD1001F608	1.0K 1/6W 5 TA26
		R3A8	0RD6802F608	68K 1/6W 5 TA26				R412	0RD4700F608 0RD1001F608	470 1/6W 5 TA26
	ļ	R3A9	0RD6802F608	68K 1/6W 5 TA26				R413	0RD1001F608	1.0K 1/6W 5 TA26 1.0K 1/6W 5 TA26
		R3B0	0RD6802F608	68K 1/6W 5 TA26		1	1	R414	0RD1201F608	
		R3B1	0RD3302F608	33K 1/6W 5 TA26		ĺ		R415	0RD2203F608	1.2K 1/6W 5 TA26 220K 1/6W 5 TA26
	ľ	R3B2	0RD2700F608	270 1/6W 5 TA26		1		R416	0RD2202F608	
		R3B3	0RD1001F608	1.0K 1/6W 5 TA26				R417	0RD2702F608	22K 1/6W 5 TA26 27K 1/6W 5 TA26
		R3B4	0RD1004F608	1.0M 1/6W 5 TA26				R418	0RD1502F608	15K 1/6W 5 TA26
		R3B5	0RD4700F608	470 1/6W 5 TA26		İ		R419	0RD3303F608	330K 1/6W 5 TA26
		R3B6	0RD2700F608	270 1/6W 5 TA26				R420	0RD1502F608	15K 1/6W 5 TA26
	İ	R3B7	0RD1802F608	18K 1/6W 5 TA26	1			R421	0RD1002F608	10K 1/6W 5 TA26
		R3B8	0RD1802F608	18K 1/6W 5 TA26				R422	0RD1001F608	1.0K 1/6W 5 TA26
	Ì	R3B9	0RD3302F608	33K 1/6W 5 TA26		1 [R423	0RD3901F608	3.9K 1/6W 5 TA26
		R3C0	ORD4701F608	4.7K 1/6W 5 TA26				R424	0RD1001F608	1.0K 1/6W 5 TA26
- 1	- 1	R3C1	0RD4701F608	4.7K 1/6W 5 TA26				R425	0RD3901F608	3.9K 1/6W 5 TA26
}			0RD4701F608	4.7K 1/6W 5 TA26				R426	0RD1002F608	10K 1/6W 5 TA26
Ì			0RD2201F608	2.2K 1/6W 5 TA26	1			R427	0RD2201F608	2.2K 1/6W 5 TA26
	- 1	R3C6	0RD1001F608	1.0K 1/6W 5 TA26		1		R428	0RD2200F608	220 1/6W 5 TA26
ł		_ 1	0RD2201F608 0RD2201F608	2.2K 1/6W 5 TA26				R429	0RD2200F608	220 1/6W 5 TA26
ı			0RD1002F608	2.2K 1/6W 5 TA26	1			R430	0RD2201F608	2.2K 1/6W 5 TA26
			0RD5600F608	10K 1/6W 5 TA26 560 1/6W 5 TA26	1	1 1	- 1	R431	0RD2202F608	22K 1/6W 5 TA26
ĺ		i	0RD1002F608	10K 1/6W 5 TA26	j		ı	R432	0RD1802F608	18K 1/6W 5 TA26
			0RD4701F608	4.7K 1/6W 5 TA26	1			R433	0RD2201F608	2.2K 1/6W 5 TA26
ĺ		_ 1	0RD3302F608	33K 1/6W 5 TA26				R434	0RD2202F608	22K 1/6W 5 TA26
	- 1	. 1	0RD1003F608	100K 1/6W 5 TA26				R435	0RD2202F608	22K 1/6W 5 TA26
			0RD2203F608	220K 1/6W 5 TA26	İ			R436	0RD5601F608	5.6K 1/6W 5 TA26
			0RD4703F608	470K 1/6W 5 TA26			- 1	R437 R438	0RD6800F608 0RD4703F608	680 1/6W 5 TA26
		R3E7	0RD2201F608	2.2K 1/6W 5 TA26	l		- 1	R439	0RD2201F608	470K 1/6W 5 TA26
		R3E8	0RD4700F608	470 1/6W 5 TA26				R440	0RD1802F608	2.2K 1/6W 5 TA26
			0RD1003F608	100K 1/6W 5 TA26		1		R441	0RD2201F608	18K 1/6W 5 TA26 2.2K 1/6W 5 TA26
			0RD1003F608	100K 1/6W 5 TA26				R442	0RD2202F608	22K 1/6W 5 TA26
				22K 1/6W 5 TA26				R443	0RD1201F608	1.2K 1/6W 5 TA26
	- 1		0RD3301F608	3.3K 1/6W 5 TA26				R444	0RD2701F608	2.7K 1/6W 5 TA26
		I		1.8K 1/6W 5 TA26				R445	0RD1201F608	1.2K 1/6W 5 TA26
	- 1			470 1/6W 5 TA26				R446	0RD2701F608	2.7K 1/6W 5 TA26
				120 1/6W 5 TA26			- 1	R447	0RD4700F608	470 1/6W 5 TA26
	,			470 1/6W 5 TA26					0RD1002F608	10K 1/6W 5 TA26
	- 1			3.3K 1/6W 5 TA26				R449	0RD1002F608	10K 1/6W 5 TA26
	- 1	. 1		10K 1/6W 5 TA26					0RD1202F608	12K 1/6W 5 TA26
		,		10K 1/6W 5 TA26		- 1	- 1	_ 1	0RD0102F608	10 1/6W 5 TA26
				820 1/6W 5 TA26	H		- 1		0RD0102F608	10 1/6W 5 TA26
			1	1.2K 1/6W 5 TA26			- 1		0RD4702F608	47K 1/6W 5 TA26
		[]		6.8K 1/6W 5 TA26 3.3K 1/6W 5 TA26			- 1			100K 1/6W 5 TA26
				2.2K 1/6W 5 TA26			- 1		0RD3900F608	390 1/6W 5 TA26
	- 1	i	1	4.7K 1/6W 5 TA26			- 1			10K 1/6W 5 TA26
				1.5K 1/6W 5 TA26		-	- 1			27K 1/6W 5 TA26
			PRD1001F608	1.0K 1/6W 5 TA26					0RD0472F608	47 1/6W 5 TA26
	- 1		PD6800F608	680 1/6W 5 TA26			- 1			47 1/6W 5 TA26
ᆚ								11400	0RD2702F608	27K 1/6W 5 TA26

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	A	L LOCA.NO	PART NO(GS)	SPECIFICATION
\vdash	-	R461	0RD2701F608	2.7K 1/6W 5 TA26		t	R4C8	0RD2203F608	220K 1/6W 5 TA26
l		R462	0RD2701F608	2.7K 1/6W 5 TA26	1		R4C9	0RD2203F608	220K 1/6W 5 TA26
		R463	0RD2202F608	22K 1/6W 5 TA26	ŀ		R501	0RD4701F608	4.7K 1/6W 5 TA26
1		R464	0RD6800F608	680 1/6W 5 TA26	i		R502	0RD1503F608	150K 1/6W 5 TA26
ı		R465	0RD5602F608	56K 1/6W 5 TA26		-	R503	0RD1503F608	150K 1/6W 5 TA26
1	ļ	R466	0RD6801F608	6.8K 1/6W 5 TA26			R504	0RD1002F608	10K 1/6W 5 TA26
1		R467	0RD1001F608	1.0K 1/6W 5 TA26	1	1	R505	0RD1002F608	10K 1/6W 5 TA26
1		R468	0RD1004F608	1.0M 1/6W 5 TA26	- 1	ı	R506	0RD1003F608	100K 1/6W 5 TA26
	1	R469	0RD6801F608	6.8K 1/6W 5 TA26			R507	0RD1003F608	100K 1/6W 5 TA26
1		R470	0RD1202F608	12K 1/6W 5 TA26	-	1	R508	0RD1003F608	100K 1/6W 5 TA26
		R470	0RD1001F608	1.0K 1/6W 5 TA26			R509	0RD1003F608	100K 1/6W 5 TA26
		R472	0RD1500F608	150 1/6W 5 TA26	-	1	R510	0RD1003F608	100K 1/6W 5 TA26
1		R473	0RD0102F608	10 1/6W 5 TA26	1		R511	0RD1003F608	100K 1/6W 5 TA26
1		R474	0RD3902F608	39K 1/6W 5 TA26			R512	0RD1003F608	100K 1/6W 5 TA26
		R475	0RD6801F608	6.8K 1/6W 5 TA26		ı	R513	0RD2201F608	2.2K 1/6W 5 TA26
1		R476	0RD4702F608	47K 1/6W 5 TA26			R514	0RD2201F608	2.2K 1/6W 5 TA26
1	1	R478	0RD4702F608	47K 1/6W 5 TA26	1		R515	0RD1003F608	100K 1/6W 5 TA26
1		R479	ORD4700F608	470 1/6W 5 TA26	-		R516	0RD1003F608	100K 1/6W 5 TA26
		R480	0RD4702F608	47K 1/6W 5 TA26			R517	0RD1003F608	100K 1/6W 5 TA26
		R482	0RD4702F608	47K 1/6W 5 TA26	1		R518	0RD1003F608	100K 1/6W 5 TA26
		R484	0RD3902F608	39K 1/6W 5 TA26			R519	0RD1003F608	100K 1/6W 5 TA26
l	1	R485	0RD5601F608	5.6K 1/6W 5 TA26			R520	0RD1003F608	100K 1/6W 5 TA26
		R486	0RD3902F608	39K 1/6W 5 TA26		İ	R521	0RD1800F608	180 1/6W 5 TA26
l		R487	0RD2201F608	2.2K 1/6W 5 TA26			R522	0RD1800F608	180 1/6W 5 TA26
1		R488	0RD1001F608	1.0K 1/6W 5 TA26		1	R523	0RD4702F608	47K 1/6W 5 TA26
		R489	0RD1001F608	1.0K 1/6W 5 TA26			R524	0RD4701F608	4.7K 1/6W 5 TA26
1		R490	0RD1001F608	1.0K 1/6W 5 TA26		١	R525	0RD4701F608	4.7K 1/6W 5 TA26
		R491	0RD1001F608	1.0K 1/6W 5 TA26			R526	0RD1002F608	10K 1/6W 5 TA26
1		R492	0RD1001F608	1.0K 1/6W 5 TA26			R527	0RD4701F608	4.7K 1/6W 5 TA26
	İ	R494	0RD5602F608	56K 1/6W 5 TA26			R528	0RD4701F608	4.7K 1/6W 5 TA26
1	İ	R495	0RD2201F608	2.2K 1/6W 5 TA26			R529	0RD1002F608	10K 1/6W 5 TA26
1		R496	0RD1001F608	1.0K 1/6W 5 TA26	1	1	R530	0RD1002F608	10K 1/6W 5 TA26
-		R497	0RD5602F608	56K 1/6W 5 TA26		1	R531	0RD1802F608	18K 1/6W 5 TA26
1		R498	0RD2701F608	2.7K 1/6W 5 TA26		1	R532	0RD1802F608	18K 1/6W 5 TA26
		R499	0RD1002F608	10K 1/6W 5 TA26	li		R533	0RD8203F608	820K 1/6W 5 TA26
		R4A0	0RD1802F608	18K 1/6W 5 TA26			R534	0RD8203F608	820K 1/6W 5 TA26
		R4A1	0RD3302F608	33K 1/6W 5 TA26			R535	0RD4701F608	4.7K 1/6W 5 TA26
1		R4A2	0RD4700F608	470 1/6W 5 TA26			R536	0RD4702F608	47K 1/6W 5 TA26
1		R4A3	0RD8200F608	820 1/6W 5 TA26			R537	0RD1004F608	1.0M 1/6W 5 TA26
		R4A4	0RD1001F608	1.0K 1/6W 5 TA26			R538	0RD1204F608	1.2M 1/6W 5 TA26
1		R4A5	0RD1001F608	1.0K 1/6W 5 TA26	11		R539	0RD1501F608	1.5K 1/6W 5 TA26
1		R4A6	0RD4701F608	4.7K 1/6W 5 TA26	H		R541	0RD0221F608	2.2 1/6W 5 TA26
1	1	R4A7	0RD1001F608	1.0K 1/6W 5 TA26			R542	0RD0221F608	2.2 1/6W 5 TA26
		R4A8	0RD4702F608	47K 1/6W 5 TA26		-	R543	0RD0221F608	2.2 1/6W 5 TA26
		R4A9	0RD1002F608	10K 1/6W 5 TA26		-	R544	0RD1003F608	100K 1/6W 5 TA26
		R4B0	0RD1501F608	1.5K 1/6W 5 TA26			R545	0RD5601F608	5.6K 1/6W 5 TA26
	1	R4B1	0RD1801F608	1.8K 1/6W 5 TA26			R546	ORD6800F608	680 1/6W 5 TA26
1		R4B2	0RD2201F608	2.2K 1/6W 5 TA26			R547	0RD1002F608	10K 1/6W 5 TA26
		R4B3	0RD6800F608	680 1/6W 5 TA26			R548	0RD1002F608	10K 1/6W 5 TA26
1	1	R4B4	0RD4701F608	4.7K 1/6W 5 TA26			R549	0RD4700F608	470 1/6W 5 TA26
		R4B5	0RD4701F608	4.7K 1/6W 5 TA26			R550	0RD1002F608	10K 1/6W 5 TA26
1		R4B6	0RD6800F608	680 1/6W 5 TA26			R551	0RD1002F608	10K 1/6W 5 TA26
		R487	0RD2201F608	2.2K 1/6W 5 TA26			R552	0RD1002F608	10K 1/6W 5 TA26
1		R4B8	0RD1501F608	1.5K 1/6W 5 TA26			R553	0RD2201F608	2.2K 1/6W 5 TA26
-		R4B9	0RD1801F608	1.8K 1/6W 5 TA26	1 I	- [R554	0RD3301F608	3.3K 1/6W 5 TA26
		R4C0	0RD1002F608	10K 1/6W 5 TA26		- [R555	0RD4701F608	4.7K 1/6W 5 TA26
1		R4C1	0RD4702F608	47K 1/6W 5 TA26	H		R556	0RD2202F608	22K 1/6W 5 TA26
		R4C3	0RD1001F608	1.0K 1/6W 5 TA26		-	R557	0RD0101F608	1.0 1/6W 5 TA26
		R4C4	0RD1001F608	1.0K 1/6W 5 TA26	1		R558	0RD0101F608	1.0 1/6W 5 TA26
	-	R4C5	0RD3302F608	33K 1/6W 5 TA26			R559	0RD0101F608	1.0 1/6W 5 TA26
		R4C6	0RD1503F608	150K 1/6W 5 TA26		-	R560	0RD0101F608	1.0 1/6W 5 TA26
		R4C7	0RD1503F608	150K 1/6W 5 TA26			R561	0RD1002F608	10K 1/6W 5 TA26
L		1	<u> </u>		JL	_			<u> </u>

	T	1		T	_	_	_			RUN DATE : 95.09.27
S	AL	LOCA.NO	· · · · · ·	SPECIFICATION	1	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
ł		R562	0RD3300F608	330 1/6W 5 TA26				R616	0RD2203F608	220K 1/6W 5 TA26
1		R563	0RD1002F608	10K 1/6W 5 TA26		1		R617	0RD2203F608	220K 1/6W 5 TA26
		R564	0RD1002F608	10K 1/6W 5 TA26				R618	0RD2203F608	220K 1/6W 5 TA26
1		R565	0RD2701F608	2.7K 1/6W 5 TA26				R619	0RD1501F608	1.5K 1/6W 5 TA26
1		R566	0RD1003F608	100K 1/6W 5 TA26	1	1		R620	0RD8202F608	82K 1/6W 5 TA26
		R567	0RD1002F608	10K 1/6W 5 TA26		1		R621	0RD2203F608	220K 1/6W 5 TA26
i		R568	0RD1002F608	10K 1/6W 5 TA26	ļ			R623	0RD8202F608	82K 1/6W 5 TA26
1		R569	0RD1002F608	10K 1/6W 5 TA26	ı	l		R627	0RD3902F608	39K 1/6W 5 TA26
		R570	0RD4700F608	470 1/6W 5 TA26		ļ		R628	0RD1203F608	120K 1/6W 5 TA26
		R571	0RD1002F608	10K 1/6W 5 TA26		1		R629	0RD1203F608	120K 1/6W 5 TA26
		R572	0RD1002F608	10K 1/6W 5 TA26		1		R630	0RD3902F608	39K 1/6W 5 TA26
١.		R573	0RD1002F608	10K 1/6W 5 TA26	1			R631	0RD8200F608	820 1/6W 5 TA26
		R574	0RD2702F608	27K 1/6W 5 TA26	1			R632	0RD8200F608	820 1/6W 5 TA26
		R575	0RD2702F608	27K 1/6W 5 TA26	1			R635	0RD1501F608	1.5K 1/6W 5 TA26
		R576	0RD2702F608	27K 1/6W 5 TA26				R636	0RD1001F608	1.0K 1/6W 5 TA26
		R577	0RD3302F608	33K 1/6W 5 TA26	l			R637	0RD1002F608	10K 1/6W 5 TA26
		R578	0RD2202F608	22K 1/6W 5 TA26				R6A0	0RD2200F608	220 1/6W 5 TA26
		R579	0RD6800F608	680 1/6W 5 TA26	1			R6A1	0RD3300F608	330 1/6W 5 TA26
		R580	0RD1001F608	1.0K 1/6W 5 TA26]			R6A2	0RD3900F608	390 1/6W 5 TA26
		R581	0RD3900F608	390 1/6W 5 TA26				R6A3	0RD4700F608	470 1/6W 5 TA26
		R582	0RD1004F608	1.0M 1/6W 5 TA26	1			R6A4	0RD6800F608	680 1/6W 5 TA26
		R583	0RD4701F608	4.7K 1/6W 5 TA26	1			R6A5	0RD1001F608	
li		R584	0RD4701F608	4.7K 1/6W 5 TA26				R6A6	0RD1501F608	1.0K 1/6W 5 TA26
	i	R585	0RD4701F608	4.7K 1/6W 5 TA26	1			R6A7		1.5K 1/6W 5 TA26
		R586	0RD4701F608	4.7K 1/6W 5 TA26	-			R6A8	0RD2201F608	2.2K 1/6W 5 TA26
		R587	0RD4701F608	4.7K 1/6W 5 TA26				R6A9	0RD3301F608	3.3K 1/6W 5 TA26
		R588	0RD3301F608	3.3K 1/6W 5 TA26	Ĺ				ORD5601F608	5.6K 1/6W 5 TA26
		R589	0RD1202F608	12K 1/6W 5 TA26		1 1		R6B1	0RD1201F608	1.2K 1/6W 5 TA26
1		R590	0RD2202F608	22K 1/6W 5 TA26				R701	0RD1000F608	100 1/6W 5 TA26
		R591	0RD1003F608	100K 1/6W 5 TA26				R702	0RD4701F608	4.7K 1/6W 5 TA26
	- 1	R592	0RD1001F608	1.0K 1/6W 5 TA26	Į i			R703	0RD1001F608	1.0K 1/6W 5 TA26
		R593	0RD0562F608	56 1/6W 5 TA26				R704	0RD1001F608	1.0K 1/6W 5 TA26
		R594	0RD1001F608	1.0K 1/6W 5 TA26		l i	İ	R705	0RD1000F608	100 1/6W 5 TA26
		R595	0RD4701F608	4.7K 1/6W 5 TA26			1	R706	0RD2701F608	2.7K 1/6W 5 TA26
	i	R596	0RD2202F608	22K 1/6W 5 TA26				R707	0RD1001F608	1.0K 1/6W 5 TA26
l	ı	R597	0RD2202F608	22K 1/6W 5 TA26				R708	0RD2700F608	270 1/6W 5 TA26
		R598	0RD2201F608	2.2K 1/6W 5 TA26			l	R710	0RD1802F608	18K 1/6W 5 TA26
		R599	0RD4703F608	470K 1/6W 5 TA26	1			R711	0RD1002F608	10K 1/6W 5 TA26
		R5A1	0RD8203F608	820K 1/6W 5 TA26	1 1		ı	R712	0RD1001F608	1.0K 1/6W 5 TA26
ŀ		R5A2	0RD6803F608	680K 1/6W 5 TA26	П		- 1	R714	0RD2700F608	270 1/6W 5 TA26
		R5A3	0RD1800F608		1 1			R715	0RD3300F608	330 1/6W 5 TA26
		ı		180 1/6W 5 TA26			i	R716	0RD1001F608	1.0K 1/6W 5 TA26
			0RD1002F608	10K 1/6W 5 TA26	1		- 1	R717	0RD2200F608	220 1/6W 5 TA26
1			0RD1002F608	10K 1/6W 5 TA26				R729	0RD2201F608	2.2K 1/6W 5 TA26
I			0RD4701F608	4.7K 1/6W 5 TA26		1		R730	0RD2201F608	2.2K 1/6W 5 TA26
			0RD4701F608	4.7K 1/6W 5 TA26			-	R731	0RD1000F608	100 1/6W 5 TA26
			0RD4701F608	4.7K 1/6W 5 TA26					0RD5601F608	5.6K 1/6W 5 TA26
			0RD4701F608	4.7K 1/6W 5 TA26				R733	0RD1001F608	1.0K 1/6W 5 TA26
			0RD3300F608	330 1/6W 5 TA26				R734	0RD1000F608	100 1/6W 5 TA26
			ORD3900F608	390 1/6W 5 TA26				R735	0RD5601F608	5.6K 1/6W 5 TA26
			0RD4700F608	470 1/6W 5 TA26				R736	0RD1001F608	1.0K 1/6W 5 TA26
		1	0RD6800F608	680 1/6W 5 TA26					0RD4700F608	470 1/6W 5 TA26
			0RD1001F608	1.0K 1/6W 5 TA26		- 1		R738	0RD2701F608	2.7K 1/6W 5 TA26
		I	0RD1501F608	1.5K 1/6W 5 TA26			- 1	1	0RD1001F608	1.0K 1/6W 5 TA26
			0RD4701F608	4.7K 1/6W 5 TA26					0RD2702F608	27K 1/6W 5 TA26
		l I	ORD4701F608	4.7K 1/6W 5 TA26					0RD1802F608	18K 1/6W 5 TA26
		1	0RD4701F608	4.7K 1/6W 5 TA26		- 1			0RD1001F608	1.0K 1/6W 5 TA26
	-		0RD3302F608	33K 1/6W 5 TA26					0RD1001F608	1.0K 1/6W 5 TA26
	- 1		0RD1200F608	120 1/6W 5 TA26					0RD1203F608	120K 1/6W 5 TA26
	- 1		0RD4700F608	470 1/6W 5 TA26					0RD5601F608	5.6K 1/6W 5 TA26
		R613	0RD5600F608	560 1/6W 5 TA26				l l	0RD8201F608	8.2K 1/6W 5 TA26
		R614	0RD5600F608	560 1/6W 5 TA26					0RD3902F608	39K 1/6W 5 TA26
		R615	0RD0471F608	4.7 1/6W 5 TA26		1			0RD1002F608	10K 1/6W 5 TA26
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s	ΔΙ	LOCA.NO	PART NO(GS)	SPECIFICATION
۲	1		0RD1202F608	12K 1/6W 5 TA26
		R806 R807	0RD8201F608	8.2K 1/6W 5 TA26
•		R808	0RD2201F608	2.2K 1/6W 5 TA26
ļ		R809	0RD1001F608	1.0K 1/6W 5 TA26
Į	1	R810	0RD1001F608	1.0K 1/6W 5 TA26
1		R811	0RD2200F608	220 1/6W 5 TA26
•		R812	0RD4700F608	470 1/6W 5 TA26
		R813	0RD1001F608	1.0K 1/6W 5 TA26 33K 1/6W 5 TA26
		R814	0RD3302F608	10K 1/6W 5 TA26
1		R815	0RD1002F608 0RD4701F608	4.7K 1/6W 5 TA26
1		R816	0RD4701F608	4.7K 1/6W 5 TA26
		R818	0RD1003F608	100K 1/6W 5 TA26
ì		R819	0RD6803F608	680K 1/6W 5 TA26
		R820	0RD1002F608	10K 1/6W 5 TA26
	1	R821	0RD3900F608	390 1/6W 5 TA26
		R822	0RD1001F608	1.0K 1/6W 5 TA26
1		R823	0RD1001F608	1.0K 1/6W 5 TA26
1		R824	0RD1001F608	1.0K 1/6W 5 TA26
		R825	0RD4701F608	4.7K 1/6W 5 TA26 4.7K 1/6W 5 TA26
		R826	0RD4701F608	470K 1/6W 5 TA26
1	1	R831	0RD4703F608 0RD6802F608	68K 1/6W 5 TA26
		R832 R833	0RD4700F608	470 1/6W 5 TA26
1		R834	0RD2203F608	220K 1/6W 5 TA26
1		R835	0RD3302F608	33K 1/6W 5 TA26
-		R836	0RD1001F608	1.0K 1/6W 5 TA26
1		R837	0RD4701F608	4.7K 1/6W 5 TA26
1	-	R838	0RD2203F608	220K 1/6W 5 TA26
	1	R839	0RD2702F608	27K 1/6W 5 TA26
		R840	0RD0752F608	75 1/6W 5 TA26 75 1/6W 5 TA26
1		R841	0RD0752F608 0RD0752F608	75 1/6W 5 TA26 75 1/6W 5 TA26
1	-	R842 R843	0RD1001F608	1.0K 1/6W 5 TA26
		R844	0RD1001F608	1.0K 1/6W 5 TA26
		R847	0RD0752F608	75 1/6W 5 TA26
ı		R848	0RD1001F608	1.0K 1/6W 5 TA26
		R849	0RD1001F608	1.0K 1/6W 5 TA26
	1	R850	0RD0682F608	68 1/6W 5 TA26 75 1/6W 5 TA26
1	1	R851	0RD0752F608 0RD1001F608	1.0K 1/6W 5 TA26
		R852 R857	0RD8202F608	1
-		R858	0RD8202F608	T T T T T T T T T T T T T T
		R859	0RD6802F608	68K 1/6W 5 TA26
1		R860	0RD6802F608	
-		R861	0RD5602F608	
-		R862	0RD5602F608	
-		R863	0RD8202F608	
1		R865	0RD8202F608 0RD1203F608	
١	-	R867	0RD8202F608	F T400
		R869	0RD5602F608	
-		R870	0RD6802F608	68K 1/6W 5 TA26
İ	ļ	R871	0RD6802F608	
		R872	0RD5602F608	
-		R873	0RD8202F608	
ļ		R874	0RD1203F608	
		R879 R891	0RD1003F608	
		R892	0RD0752F608	3 75 1/6W 5 TA26
		R893	l	3 75 1/6W 5 TA26
		R894	0RD6800F608	8 680 1/6W 5 TA26
L				

S AL LOCA.NO PART NO(GS) SPECIFICATION R901 0RH8201D622 8.2K 1/10W 5 D.R/TP R902 0RH1000D622 100 1/10W 5 D.R/TP	
THE PARTY OF THE P	1
R902 0RH1000D622 100 1/10W 5 D.R/TP	1
R903 ORH8200D622 820 1/10W 5 D.R/TP	l
R904 0RH4702D622 47K 1/10W 5 D.R/TP	ł
R905 0RH1200D622 120 1/10W 5 D.R/TP	i
R906 0RH5602D622 56K 1/10W 5 D.R/TP	
R907 0RH3903D622 390K 1/10W 5 D.R/TP R908 0RH4703D622 470K 1/10W 5 D.R/TP	l
E DICAMONE DE DE	ĺ
R909 0RH5601D622 5.6K 1/10W 5 D.H/1P R910 0RD0752F608 75 1/6W 5 TA26	
R911 ORHO752D622 75 1/10W 5 D.R/TP	
R912 0RH0752D622 75 1/10W 5 D.R/TP	i
R913 0RH0752D622 75 1/10W 5 D.R/TP	1
R914 ORH1002D622 10K 1/10W 5 D.R/TP	- 1
R915 0RH4701D622 4.7K 1/10W 5 D.R/TP	1
R916 0RH0102D622 10 1/10W 5 D.R/TP	1
R917 ORH1001D622 1.0K 1/10W 5 D.R/TP	1
R918 0RH1001D622 1.0K 1/10W 5 D.R/TP	
R919 0RH5600D622 560 1/10W 5 D.R/TP	ļ
R921 0RH1001D622 1.0K 1/10W 5 D.R/TP	İ
R922 ORH1202D622 12K 1/10W 5 D.R/TP	
R923 0RH1802D622 18K 1/10W 5 D.R/TP	
R924 0RH3901D622 3.9K 1/10W 5 D.R/TP	}
R926 0RD1001F608 1.0K 1/6W 5 TA26	-
R930 0RH5600D622 560 1/10W 5 D.R/TP	l
R950 0RH1002D622 10K 1/10W 5 D.R/TP	
R951 0RH1002D622 10K 1/10W 5 D.R/TP RP01 614-007A 2.7/2W CEMENT SMPS V	I
The second secon	
1 1 1 2 2	
1 1 1 1 1 1 1 1 1 1	
	i
RP05 0RD0221F608 2.2 1/6W 5 1A26 RP06 0RW0101K600 1 2W 5% A	1
RP07 0RD1201F608 1.2K 1/6W 5 TA26	
RP08 0RD2701F608 2.7K 1/6W 5 TA26	
RP09 0RN4701F408 4.7K 1/6W 1 TA26	
RP10 0RD4701F608 4.7K 1/6W 5 TA26	
RP13 0RD3900F608 390 1/6W 5 TA26	
RP14 0RD1000F608 100 1/6W 5 TA26	
RP15 0RD2203F608 220K 1/6W 5 TA26	
RP16 0RD1003F608 100K 1/6W 5 TA26	
RP21 0RN3001F408 3.0K 1/6W 1 TA26	
W014 0RD1500F608 150 1/6W 5 TA26	
W950 0RH0000D622 0 1/10W 5 D.R/TP	
W951 ORHO000D622 O 1/10W 5 D.R/TP	
W952 0RH0000D622 0 1/10W 5 D.R/TP	
W953 ORHO000D622 0 1/10W 5 D.R/TP W954 ORHO000D622 0 1/10W 5 D.R/TP	
W955 ORHO000D622 0 1/10W 5 D.R/TP	
REMOCON RECEIVER	·
RC601 668-227C RECE 15.0 3276A 2800 KOT	EC
SCART	
JK801 573-006C RGB SOKET SR-21S3 21PIN	I (BK)
JK802 573-006D RGB (BLUE) SWITCH	
SW601 556-219A SKHV10910A (GS ALPS)	

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		SW602	556-219A	SKHV10910A (GS ALPS)
		SW603	556-219A	SKHV10910A (GS ALPS)
		SW604	556-219A	SKHV10910A (GS ALPS)
ļ		SW605	556-219A	SKHV10910A (GS ALPS)
	ĺ	SW606	556-219A	SKHV10910A (GS ALPS)
1		SW607 SW6A0	556-219A 556-219A	SKHV10910A (GS ALPS) SKHV10910A (GS ALPS)
1	}	SW6A1	556-219A	SKHV10910A (GS ALPS)
		SW6A2	556-219A	SKHV10910A (GS ALPS)
1		SW6A3	556-219A	SKHV10910A (GS ALPS)
		SW6A4	556-219A	SKHV10910A (GS ALPS)
	ł	SW6A5	556-219A	SKHV10910A (GS ALPS)
		SW6A6	556-219A	SKHV10910A (GS ALPS)
		SW6A7	556-219A	SKHV10910A (GS ALPS)
		SW6A9	556-219A	SKHV10910A (GS ALPS)
L	,		TU	JNER
	<u> </u>	TU701	521-412A	TUGG9-A01F G/ALPS FS 470 FTZ
			VARIABL	E RESISTOR
		VR201	613-032U	RH0638C15R0WA (100K)
		VR202	613-032U	RH0638C15R0WA (100K)
		VR3A0	613-032U	RH0638C15R0WA (100K)
		VR401	613-032Q	RH0638CJ4R0WA (22K)
l l		VR402	613-032Q	RH0638CJ4R0WA (22K)
		VR403	613-032U	RH0638C15R0WA (100K)
		VR4A0	613-032Q	RH0638CJ4R0WA (22K)
		VR4A1 VR4A2	613-032S 613-032S	RH0638CS4R0VA (47K)
		VR4A3	613-032S	RH0638CS4R0VA (47K) RH0638CS4R0VA (47K)
		VR4A4	613-032Q	RH0638CJ4R0WA (22K)
		VR601	611-012	RK09K117000324B
		VR602	611-0121	RK09K117000324B
		VR701	613-032Q	RH0638CJ4R0WA (22K)
			CRY	/STAL
		X202	529-001K	32.768KHZ 3*8 SEIKO (20PPM)
		X301	529-029K	4.433619MHZ 15PPM HC-49/U KSS
		X3A0	529-022F	4.433619M 30PPM CL=16P DL=1M
	ŀ	X501	529-020R	12.000000MHZ 30PPM NO-TU L=4.0
		X502	529-022E	11.71875 30PPM CL=10P DL=1M
		X701 X801	529-021Q 529-019A	18.432MHZ DBS KUKJAE
		X8A1	529-022V	CSB500F-9 MURATA 17.734476MHZ CL-12P 25PPM LEAD
	L		RESO	NATOR
		X201	618-017A	FCR6.0MCT2 TDK-J(TAPING)
			ZENEF	RDIODE
		ZD201	0DZ820009AA	MTZ8.2B TP ROHM-K
-		ZD202	0DZ620009AA	MTZ6.2B (TA)
		[0DZ620009AA	MTZ6.2B (TA)
1			0DZ560009CA	MTZ5.6B TP ROHM-K
	-	1	0DZ620009AA	MTZ6.2B (TA)
			0DZ620009AA	MTZ6.2B (TA)
- [0DZ100009AA	MTZ10B MINI TP ROHM-K
		II	0DZ100009AA 0DZ100009AA	MTZ10B MINITP ROHM-K
			0DZ100009AA	MTZ10B MINI TP ROHM-K MTZ10B MINI TP ROHM-K
		_5-00	022100003AA	WILLIOD WINT IT HUMM-K

S AL LOCA.NO PART NO(GS) SPECIFICATION		_			RUN DATE : 95.09.2
ZD601	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
ZD602			ZD501		MTZ6.2B (TA)
ZD701			1	0DZ160009BA	
ZD801					MTZ16B TP ROHM-K
ZD802					MTZ10B MINI TP ROHM-K
ZD803			l		
ZD804					
ZD805		l			
ZD806					•
ZD807					
ZD808					
ZD809					
ZD810					
ZD811					MTZ16B TP ROHM-K
ZD812					
ZD813					i
ZD814					
ZD815					
ZD816	ı				
ZD817					
ZD818					
ZD819	- 1	İ	L		
ZD820					
ZD821	ļ	l			
ZD822	ı	[
ZD823			1		MIZIOS IP ROHM-K
ZD824 ODZ160009BA MTZ16B TP ROHM-K ZD825 ODZ160009BA ZD826 ODZ160009BA ZD827 ODZ160009BA ZD828 ODZ160009BA ZD829 ODZ160009BA ZD830 ODZ160009BA ZD831 ODZ160009BA ZD831 ODZ160009BA ZD832 ODZ160009BA MTZ16B TP ROHM-K ZD832 ODZ160009BA MTZ16B TP ROHM-K ZD832 ODZ160009BA MTZ16B TP ROHM-K ZD833 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ5.6B TP ROHM-K MTZ16B TP					
ZD825					
ZD826					
ZD827	Ì		I		
ZD828					
ZD829 ODZ160009BA MTZ16B TP ROHM-K ZD830 ODZ160009BA MTZ16B TP ROHM-K ZD831 ODZ160009BA MTZ16B TP ROHM-K ZD832 ODZ160009BA MTZ16B TP ROHM-K ZD833 ODZ560009CA MTZ5.6B TP ROHM-K ZD834 ODZ560009CA MTZ560009CA MTZ560009CA DD834 ODZ560009CA MTZ560009CA MTZ560009CA DD834 ODZ56000	İ				
ZD830 ODZ160009BA MTZ16B TP ROHM-K CD831 ODZ160009BA MTZ16B TP ROHM-K MTZ16B TP ROHM-K CD832 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA MTZ5.6B TP ROHM-K CD834 ODZ560009CA CD834 ODZ560009CA CD834 ODZ560009CA CD834 ODZ560009CA CD834 ODZ560009CA CD834 ODZ560009CA ODZ56		İ			
ZD831		i	- 1		
ZD832 0DZ160009BA MTZ16B TP ROHM-K ZD833 0DZ560009CA MTZ5.6B TP ROHM-K ZD834 0DZ560009CA MTZ5.6B TP ROHM-K	- [. 1		
ZD833	- 1				
ZD834 0DZ560009CA MTZ5.6B TP ROHM-K					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
				0DZ330009AF	MTZ33B,TP,ROHM-K
ZDP02 0DZ560009CA MTZ5.6B TP ROHM-K					
THE STATE OF THE S			_		